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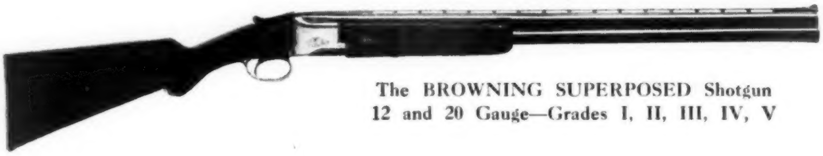

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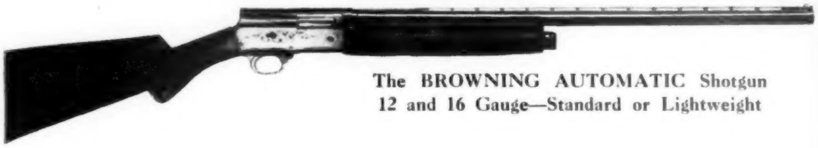

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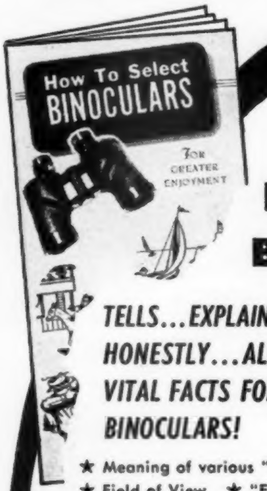

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The Rifle 1885-1888
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COVER

Afield with his shotgun, the hunter on the cover (made from a 4x5 Kodachrome by Sid Glanzer) is accompanied by the International (American-Canadian) Champion German short-hair pointer, Pheasant Land Stormalong. Turn to page 16 for an instructional article on field shooting.

AMERICAN RIFLEMAN

*In the Service:

John Scofield
T. W. Child
J. S. Rose
M. D. Waite
Claude Petrone

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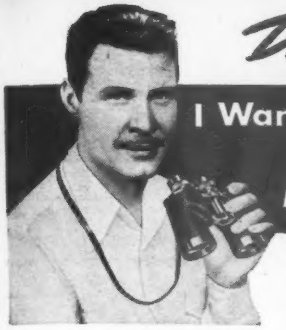

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Now there's a darn good reason why Harry is dubbed "Short-Sighted." He still believes that hunting efficiency is only as good as the naked eye, despite the fact all crack hunters know better.

* * *

Sh . . shsh! Harry notices a slight movement . . a rising bit of dust. Is it game? Is it wind? Or is it the warden? Harry doesn't know Closer investigation is possible by the walking method or the binocular method. Not having binoculars, Harry "walks his feet off" — scares or misses dozens of prize specimens, all because he doesn't know the score on modern binoculars.

Well we could tell you lots more about "Do-it-the-hard-way" Harry, but just one look inside his den reveals the story Whereas the walls of his friends are covered with stuffed trophies, Harry's are painfully bare. He tries so hard to amuse his pals with his escapades, but how funny can 59 Fines, 27 Accidents and 3 Revocations of License be? Secretly, his friends shake their heads mournfully, and only hope that some day Harry will get wise to himself.

MORAL — Don't be a "Short-Sighted" Harry. Don't put off buying a real quality Binocular. Select one today (a Bushnell, we hope). Always carry and use them on the trail. Next to your gun and ammo, binoculars are your most potent weapon. They are a trusty guide — always ready and able to protect you — to give you a sharp, clear picture; greater confidence and more game.

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IncidenTally

About eight years after the British, who advocated firing in volleys, had been defeated in the American Revolution by the rough and ragged Continentals, the U. S. Army was in a mess. Most of the men who had fought during the years 1776-1782 had gone back to their farms, or had struck out for the fertile lands to the west of the Alleghanys. Troops numbered less than one hundred, with a captain as ranking officer, at one time in 1784, though shortly thereafter one infantry regiment and two companies of artillery were recruited from the militia of Connecticut, Pennsylvania, New York, and New Jersey to deal with Indian uprisings in the West.

Men were moving from the eastern seaboard of the American continent toward the rich Ohio River valley and drifting down into Kentucky, settling the area known as the Northwest Territory. In the years before the Revolution the Indians had been held in check by the presence of British troops at Mackinac, Detroit, Oswego, and Niagara. Their withdrawal after the surrender of Cornwallis at Yorktown had resulted in numerous raids on white settlers by the red men. Settlement of the Northwest Territory might have been delayed for years if these attacks upon the families moving into the country were allowed to continue.

Less than a thousand troops were raised and equipped and sent west under command of Major General Arthur St. Clair to put down the marauding tribes. After spending some unpleasant months under the aged, irresolute St. Clair, a detachment of soldiers was attacked before sunrise one morning by Indians under Simon Girty. Little trained in the use of the few three and six-pound artillery pieces they possessed, and less practiced with their muskets, St. Clair's forces were slaughtered and butchered by the raid of a numerically superior Indian force of over a thousand. The red men did not suffer much harm at the hands of an Army whose principal activity had been carpentry in building stockades and carousing in Pittsburgh.

Major General Anthony Wayne—the 'Mad Anthony' of Revolutionary campaigns—was ordered in March, 1792 by Washington to recruit over five thousand men and return west to Fort Pitt to aid in protecting the venturesome who were building a new nation out of the wilderness.

Arriving in camp at Pittsburgh, Wayne immediately began a strenuous training program to make a fighting force of his troops while Congress negotiated for peaceful settlements of differences with the Indians. Each soldier in the Legion of the United States—so the Army was called at that time—was ordered by Wayne to keep his arm in firing condition at all times and to drill regularly. More important, infantrymen and riflemen, so individual soldiers were divided in the Legion, were ordered to learn to shoot as individuals. Wooden snappers replaced the flints of muskets and rifles for 'dry' firing. Powder which did not meet government acceptance standards was made into blank ammunition for use in field problems. Troops fired at 'marks' for an hour each day with a reward of a gill of whiskey going to the best shots, half as much to runners-up, and the riflemen forfeiting their whiskey if beaten by the infantry. The worst shots had to salvage lead from the targets and ground nearby. Wayne recorded that the best shots could hit within an inch or two of the center of the target at 55 yards range.

After spending a year at Fort Pitt, Wayne and his men moved down the Ohio near to Cincinnati, where the rigorous training continued for another year. In the spring of 1793, negotiations for peace with the Indians broke down and the Secretary of War ordered Wayne to destroy the 'savage foe'.

In June of 1794 a small garrison of about 200 of Wayne's army at Fort Recovery repulsed with well-aimed fire between 1,500 and 2,000 Indians who attacked the garrison. In other minor engagements, trained soldiers successfully defeated marauding Indians. In August of 1794, Wayne moved north with a force of 3,500 to carry out Knox's orders. The climax to his campaign came at the battle of Fallen Timbers. An advance party of 1,000 of Wayne's force met over 500 Indians and Canadians and, immediately attacking, delivered a withering, accurate fire at close range and the savages fled. A turning point in white-Indian relations came with the rout of redskins by the well-trained troops.

Thus, one of the earliest instances of training American soldiers in individual marksmanship (see page 21) contributed to the defeat of marauding redskins on the western frontier of a new nation and cleared the way for the influx of settlers and their families who were to build the United States.—J. A. H.

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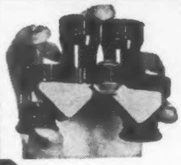

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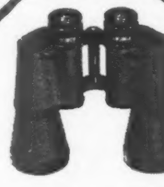

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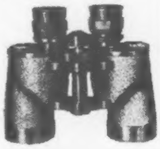

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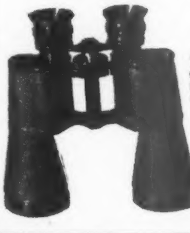

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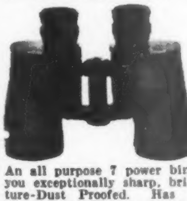

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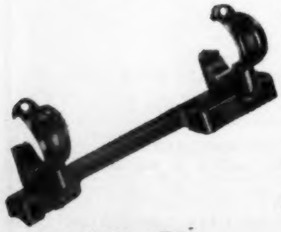

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BRITISH RIFLE

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Editor:

Lately press and radio have roused m curiosity. . . . First, it has been state that the nations in the Atlantic Pact ar going to standardize their weapons! As sociated with this general statement ha been the more particular statement tha the British are discarding their .303 calibe cartridge in favor of one about 7 millimeters. I am puzzled, though, because par of the news release was to the effect tha when the general standardization took place it was believed by some in authority tha the United States calibers in small arm would probably be adopted. I do hope tha the day will not be too far off when th AMERICAN RIFLEMAN can tell us more!

THOMAS K. CHAMBERLIN

- *That day is here. See page* 13.—*Ed.*

NRA—GUARD LIAISON

New York, New York

Editor:

In the August RIFLEMAN (page 9), Se geant Wakeman of Albany paints a gloom picture of marksmanship training in th New York National Guard.

With regard to one regiment, his description is not accurate. During the 1949-50 indoor season, teams representing Company D and the First Battalion, respectively, of the 107th Infantry, N.Y.N.G., in nation-wide competition, placed first in th State of New York, first in the First Army Area, and second in the entire Unite States. The Seventh Regiment won th four-man team match, expert class, at th Northeastern Regionals fired at Wallingford, Connecticut, in July 1951. During th 1950-1 indoor season, the same outfit defeated the United States Naval Academy Columbia and Princeton over the colleg course. Early in 1950, the Seventh Regiment pistol team defeated the United State Military Academy with the .45 automati and in 1951 the Seventh twice defeate West Point with the M-1 rifle. The 107th Infantry has won both rifle matches with the Canadian Grenadier Guards, in 1950 at Peekskill, and in 1951 at Montreal.

The remedy for Sergeant Wakeman's situation is a closer liaison with NRA affiliated rifle clubs.

The program of military training for the National Guard issued by higher authority is so exacting that it is not possible to develop expert riflemen in the course of attendance at ordered formations. The training must to a large extent come from voluntary participation in a great game. Treat rifle shooting as a competitive sport, cooperate with the NRA clubs, and get 10 o 12 men shooting at least once a week, preferably in organized matches, in addition to their attendance at drill. The re

(Continued on page 9)

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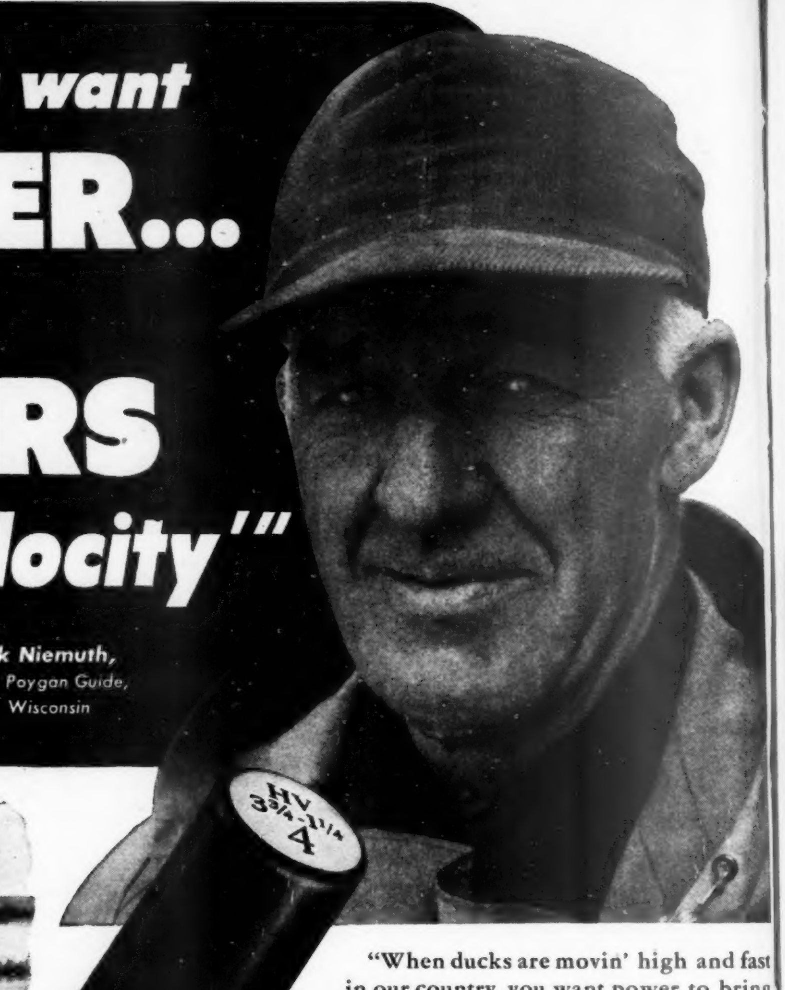

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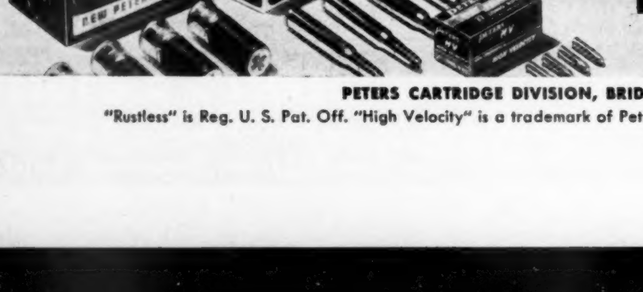
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(*Continued from page 6*)

sults of such training will be apparent when the team goes on the line.

P. Randolph Harris

GOVERNMENT INTERFERENCE

Prescott, Arizona

Editor:

Page 68 of the Dope Bag, August Rifleman, "Low Wall Winchester", has me saying that firing pin protrusion should be .55 inch. A recent public opinion poll says you are going to receive 55 letters which agree unanimously that I'm all wet.

In the interest of safety, and to save me answering those 55 letters and trying to evade their punches, will you please explain to the readers that my original letter said, ".055"; that the linotype operator intended setting it up that way but the whole available supply of zeros in Washington had been requisitioned by the Government for use in figuring finances; and since he couldn't spell "thousandths", there wasn't anything else he could do.

H. E. MacFarland
NRA Technical Service

RUSSELL FAMILY

Winchester, Mass.

Editor:

The article in the August Rifleman (page 33), "Anniversary of NRA Junior Program", struck a most responsive chord in my family, and particularly in its reference to B. M. Russell, the organizer and Executive Director of the old Winchester Junior Rifle Corps.

My oldest son, Kenneth Russell Brown, age 12, only just this year became the first grandson of B. M. Russell to enter into riflery as a junior member of NRA and the Arlington Rifle Club of Woburn, Mass.

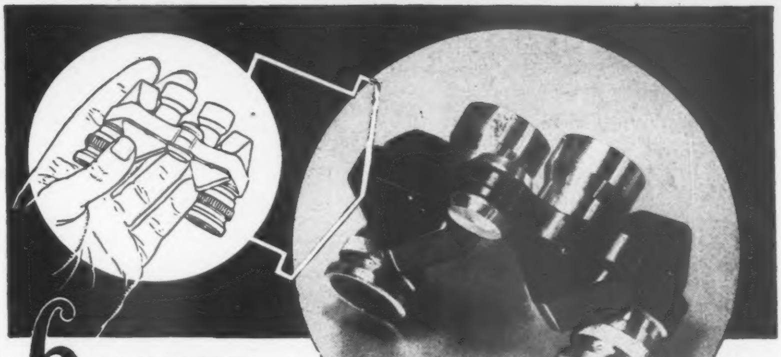
Prior to leaving for a summer at Camp O-AT-KA, Sabago Lake, Maine, "Ken" had already qualified for his first three junior ratings. At camp he has earned his Sharpshooter rating and also his first bar, as well as being a member of the 12 and under camp rifle team.

"Ken" is not only following his grandfather's interest in riflery, but also his mother's. Mrs. Brown (Ruth L. Russell) was "B. M.'s" oldest daughter and as he used to call her—"the tomboy shooter of the Russell family." As an old W.J.R.C. Expert Rifleman, Mrs. Brown, prior to our marriage, taught riflery in leading girls' camps throughout New England.

With another 9 years old son coming along who is already casting an envious eye on big brother's riflery, and with "Ken" and mother ganging up on me, Pop has been forced to add serious target shooting to his already existent interest in field shooting and hunting.

We're not promising anything, but we do believe that, as the real "father" of organized junior riflery, B. M. Russell would get a big thrill looking down from "way up yonder" to see the Brown family on the firing line at Camp Perry as a family unit. We'll keep practicing and see what we can do.

Nelson K. Brown



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MEMO to
American Rifleman readers

We announced two months ago a reduction in price to American Rifleman readers to lower our pocket binocular inventory. We had bought before price ceilings went into effect and passed the saving on to our customers. The results were gratifying . . . hundreds were sold. AND, now the manufacturer, to insure immediate volume sales to us, has repeated the original price quotation! THEREFORE, we are repeating our offer *for as long as present stocks exist* to still sell this sensational quality achromatic pocket size binocular with genuine leather case and straps for only $16.95 plus Federal Tax.

Here is What Experts Say About Them

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"I was quite surprised to find how good they were compared to what you would expect from glasses this small and light." Lt. Col. Jim Crossman.

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"Now you can get close-up views of sports events, wild life, etc. Thanks to radically different design by UNITED, Chicago."

LT. COL. CHAS. ASKINS
Firearms Editor, Hardware World, "I experimented extensively with your binoculars in dense woods during late evening, early morning—they are A-1."

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"For cost, performance and compactness, we find these 6 Power Prism Binoculars good for every general purpose."

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"VEST POCKET EYES. Smaller than a pack of cigarettes. Powerful binoculars with lightweight metal bodies. Moisture, dust proof, etc."

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(Continued from page 9)

MOTION CARRIED

Buffalo, N. Y.

Editor:

This letter was planned some time ago, but the August RIFLEMAN jogged my memory, now here 'tis. The column headed "Incidentally" calls our attention to the service (that should be a capital 'S') rendered by the Dope Bag. To many of our members the Dope Bag is one of the most important features of the RIFLEMAN, if not the most important.

Here's at least one vote to restore the Dope Bag . . . under the masthead. . . .

R. O. KNUDSON

● *Thanks for a good suggestion. Look on page 2 of this issue.—Ed.*

BALLISTIC PENDULUM

Los Angeles, California

Editor:

The article "Knocking Them Flat" by Matt Grant (August, page 44) will, unless I am badly mistaken, bring a snowstorm of protest, especially from those who are unfamiliar with the older methods of investigating matters ballistic. To all such persons one should recommend a study of the old methods of estimating velocity by the ballistic pendulum. The "wooden deer" which Grant devised is essentially an inverted ballistic pendulum, the results are essentially the same as he would have obtained with a conventional ballistic pendulum and his conclusions are quite correct.

JOHN H. SCHAEFER, M.D.

San Francisco, Cal.

Editor:

The experiment described by Mr. Matt Grant in the August RIFLEMAN is interesting, but unfortunately, it is very misleading. Mr. Grant used the momentum of moving bodies in making his comparison instead of the relative kinetic energies. Momentum is the quantity of motion in a moving body; kinetic energy is its capacity for performing work. Momentum is a function of the velocity of a moving body, kinetic energy is a function of the square of the velocity. The expressions for momentum and kinetic energy are MV and $\frac{1}{2} MV^2$.

Mr. Grant's baseball, weighing five ounces and with a velocity of 150 feet per second has kinetic energy of 109.3 foot pounds; the 220 grain bullet at 2190 feet per second has kinetic energy of 2345 foot pounds. One would imply from Mr. Grant's statement that the rifle bullet would do half the work of the pitched baseball, whereas it will do 19.7 times as much work.

It is the work performed by the energy of a bullet rather than the push of its momentum that is to be considered in relation to its destructiveness.

JOHN E. LOGAN

Reader Logan missed the point of Grant's article, which is that the push of a bullet, as distinguished from the disruptive effect in penetration, is proportional to momentum, not kinetic energy.—Ed.

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Photo by Lynwood B. Chace from Encyclopaedia Britannica Films, Inc.

Outfox Vulpes Fulva

When *Vulpes fulva* is near, birds and rabbits need all their wits. The red fox is a stalker and poacher extraordinary who takes his toll of cottontails, grouse, pheasants and other small game.

You'll enjoy trying to outfox this fellow with the glorious brush, and you'll find him a wily, clever opponent. Shoot the red fox when his depredations are numerous but don't forget that he also helps keep grass-eating wildlife from overrunning the fields. See your local game regulations, too, before shooting the fox.

Other than controlling predators like the red fox, good sportsmen can help conserve our game supplies by joining and taking part in local and national conservation groups.

N·R·A· RANGER

Write for free booklet on how to start a rifle club . . . win Ranger Shooting Emblems. Sportsmen's Service Bureau, Department E-4 Sporting Arms and Ammunition Institute, 343 Lexington Ave., New York 16, New York.

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REG. U. S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING . . . *THROUGH CHEMISTRY*

DU PONT SPORTING POWDERS

WORLD-FAMOUS SINCE 1802

An Open Letter to the Membership

FROM AN organization founded in 1871 by a small group of officers of New York State's National Guard for the purposes of improving its members in marksmanship and promoting a system of aiming drill and rifle practice as a part of the military drill of the National Guard of the various States, the National Rifle Association of America has grown in size and in stature until its influence is felt at all levels of government and in every part of the nation.

In comparison with the restricted objects of its original charter, today's NRA seeks to educate the youth of the nation in marksmanship; to encourage shooting, particularly among civilians, as a sport and for the purpose of qualifying as finished marksmen those individuals who may be called upon in time of war; and to create a public sentiment for the encouragement of rifle practice for these purposes. As a corollary, it stands squarely behind the premise that the lawful ownership of small arms must not be denied citizens of good repute, so long as they continue to use such weapons for lawful purposes.

The National Rifle Association is no longer, as it was at its inception, a small, exclusive group of dyed-in-the-wool, high-powered-rifle competitive shooters. Instead, it is an Association of patriotic citizens whose many varied interests touch common ground in the field of shooting and in the love of country. To foster these common interests, the National Rifle Association does these things:

> *It encourages marksmanship training within law-enforcement agencies, within the Armed Forces, and by civilians through its organized clubs and its basic small arms training schools.*
>
> *It teaches 'safety with firearms' and 'conservation of wild life' through the media of its junior clubs, its senior clubs, and its junior hunter program.*
>
> *It sponsors recreational programs in both hunting and competitive shooting with all types and calibers of personal firearms.*
>
> *It maintains a highly trained technical staff for the benefit of all of its members.*
>
> *It watches over the legislative programs of nation, state, and municipality, to insure that the right of law-abiding citizens to own small arms for self-defense, for national security, and for recreation is not abridged.*
>
> *It publishes and distributes THE AMERICAN RIFLEMAN for the information and enjoyment of its entire membership.*

The National Rifle Association is a non-profit corporation which is supported solely by its membership fees. It is not affiliated with any manufacturer of arms or ammunition, or with any jobber or dealer who sells firearms and ammunition, nor does it receive financial support from any of them Contrary to the opinion of many, it receives n appropriation from Congress. What the NRA doe and how well it does it depends entirely upon th number of people who seek and maintain membership in the Association. The more members i has, the better service the National Rifle Association can render.

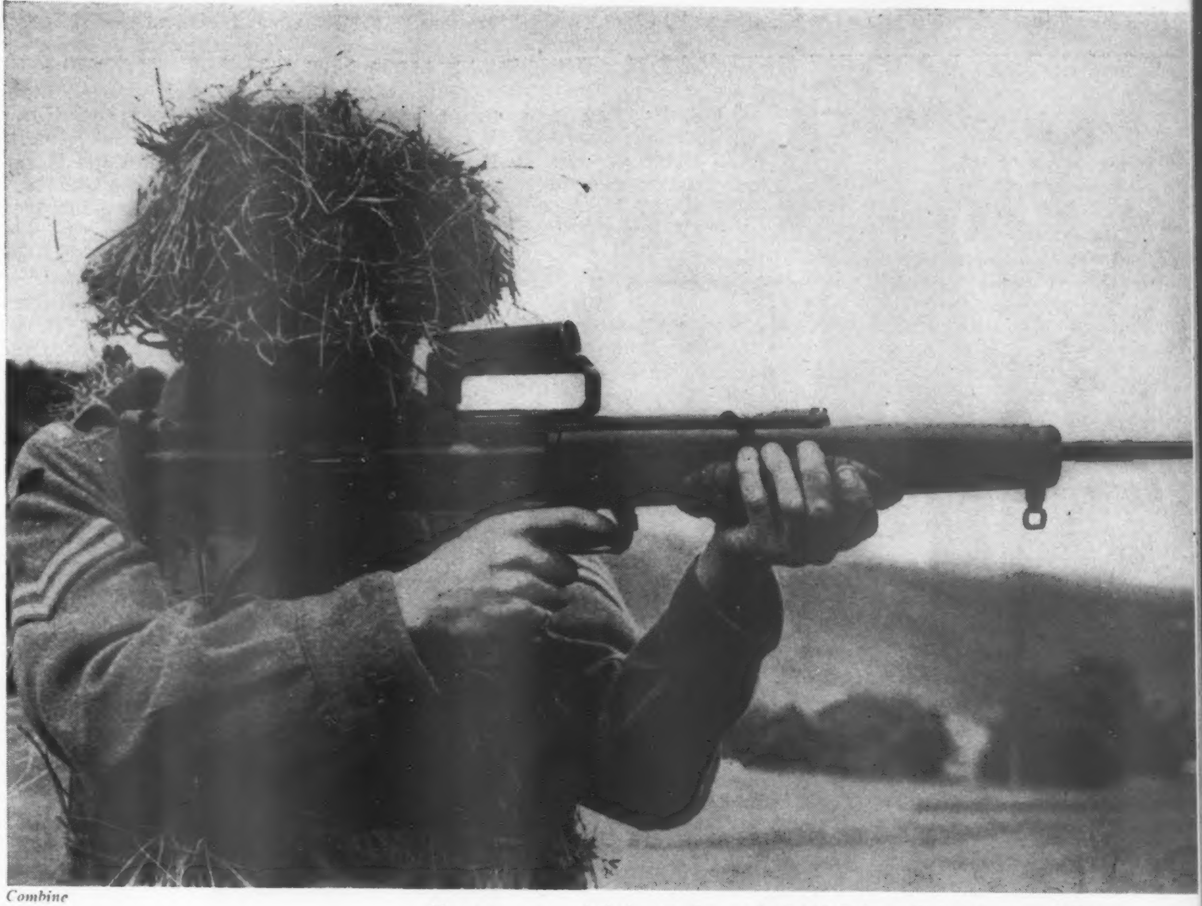
The times are ripe for a membership drive. National security requires a citizenry trained in marksmanship. The pre-induction training and the instruction of auxiliary police forces, plant guards, and other personnel needed for civilian defense now being conducted by our affiliated clubs, and ou basic small arms training schools ought to result i increased enrollment. There is an ever-growing source of prospective members in the three-and-a half million or more young men at which the Armed Services will be maintained. The Association's firearms legislative program ought to attract membership from sportsmen and gun owners alike. Interes in every phase of shooting is on the increase. In a rapidly expanding population the National Rifle Association can and must look forward to a corresponding growth in its membership.

Too many people know too little about the NRA Too many people think of it solely in terms of competitions, of the National Matches, of 'belly-shooting'. Too few people realize the scope of its activities or the breadth of its vision.

> *No other organization outside of the Armed Forces is so vitally concerned with national preparedness and the training of our people in the use of the basic weapons of national defense.*
>
> *No other organization does so much for the education of our people in 'safety-with-firearms'.*
>
> *No other organization so strongly encourages shooting for recreation in every field and with every type of personal gun.*
>
> *No other organization provides a comparable amount of high quality technical service to its members.*
>
> *No other organization carries on such a continuous fight against anti-gun laws which would restrict the ownership and use of shotgun, handgun, and rifle alike.*

The NRA is *our* association. It will live only a long as we believe in it. It can give its services only because we support it. It will grow only as we make a conscientious effort to sell it to our friends. Working together with the mutual support and confidence of our entire membership, I am confident that the National Rifle Association of America will continue to grow in size and in stature throughout the tenure of my stewardship.

Merritt A. Edson



Combine

The statement, made before Parliament by British Defense Minister Emmanuel Shinwell several weeks ago, that the British had selected this new .280 (or 7mm) automatic rifle to replace the .303 Lee-Enfield caused a stir in Atlantic Pact circles

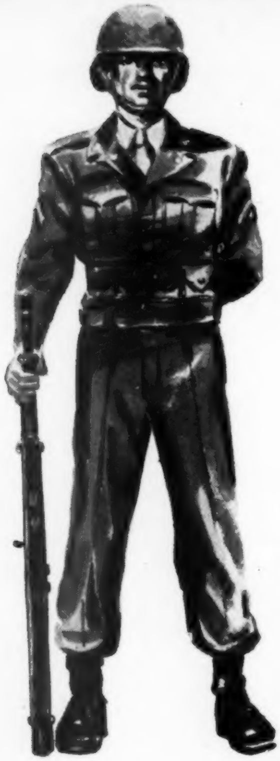
A *New Rifle* FOR NATO?

Did the Atlantic Pact nations adopt a ndard rifle for their armies at the meeting in Washington on Aug. 2?

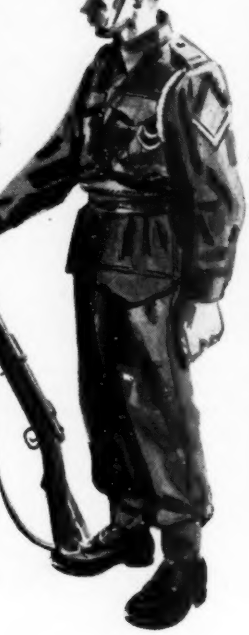
By CLAY BLAIR, JR.

THREE WEEKS ago, a little-publicized but very important small-arms conference was held in Washington. Representatives from Canada, the United Kingdom, France, and the United States gathered in secret Pentagon sessions to deal with a crisis that had developed in the program for standardization of a rifle for the Armies of those nations. Here is a background report from Washington:

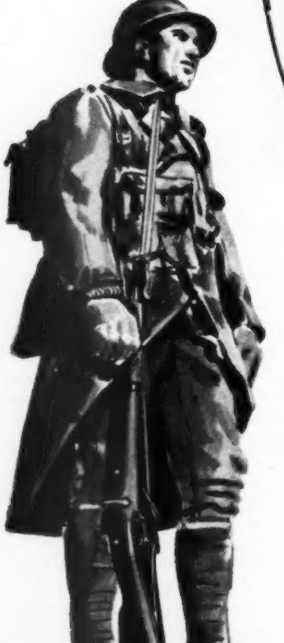
The creation of a huge North Atlantic Treaty Organization Army (400,000 men this year), under the leadership of 'Ike' Eisenhower, has lent a note of urgency to the standardization program. Never before in history have twelve nations banded together to form an army. These nations bring together eleven (Iceland has no army) methods of communication, eleven uniforms, eleven pay scales, and as every rifleman knows, a variety of shoulder weapons of different calibers. Already 'Ike' is campaigning for a 'one-uniform' Army. But his biggest problem remains to be solved: the



At present U. S. soldier is armed with M-1 Garand rifle



British Tommy uses eighty - year - old .303 Lee-Enfield bolt-action rifle

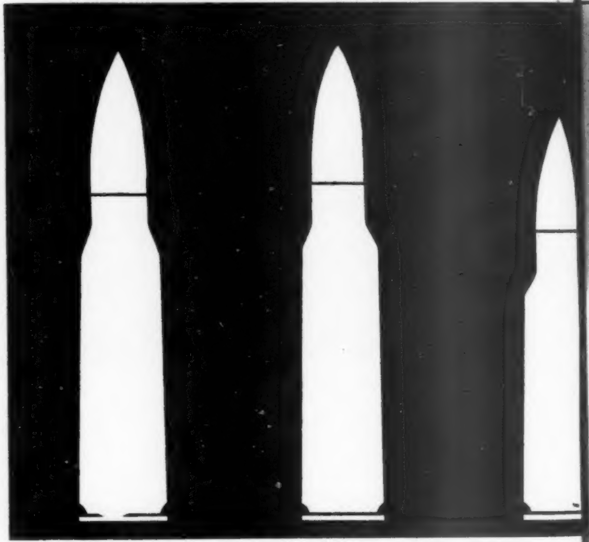


French soldier carries a bolt-action in 7.5mm

creation of a 'one small-arms ammunition' Army. And th three big logistical powers responsible are doing little, if an thing, to help him.

To the allies who fought World War II, and particular to the three nations who fought the great logistical battle o Western Europe, the United States, Canada, and the Unite Kingdom, it was apparent at the war's end that a system o equipment standardization should be devised. On th beachheads and plains of Western Europe in 1944, harasse supply officers had wrestled with numerous types of .3 caliber ammunition and artillery shells. In the vast confusio of ammunition boxes, mixed with boxes containing hundred of other items, often file cabinets and typewriters appeare at the front before badly needed ammunition. Thoug eventually an efficient supply system whipped the Axis n tions to their knees, it was obvious to even the lowliest suppl sergeant that if the allies had used one type of small-arm ammunition, the job would have been done quicker an cheaper, and would have been done with less confusion.

Far back from the firing line, in the arsenal of demo racy, the factories of Canada, the United States, and th United Kingdom fought an even greater supply problem. Charged with the task of delivering the mostest firstest, pr duction bosses looked askance at the variety of types o small-arms ammunition they were turning out, not to mention all the varied electronic equipment, electrical systems, spark plugs, and mess kits.



A comparison drawing, made from descriptions, of the British .280 (right) and U. S. .30 caliber (center) experimental cartridges. The .300 Savage is shown at left

Therefore, in 1947, when the world was relatively quie and the Russian bear was maneuvering through a cool diplomatic war, the United States, Canada and the United Kingdom optimistically signed a standardization agreement. It wa a wise, if belated move. Its scope was vast: tanks, ai planes, ships, weapons. An elaborate procedural system wa worked out. Each nation, in a fit of standardization energ dispatched military representatives to the other's militar capital to help work out the details. A new type of re tape, 'standardization', was evolved.

Though the idea was to standardize everything from th screw threads on bolts to intercontinental bombers, fundamental in the program was small-arms ammunition, whic had always caused the greatest supply headaches.

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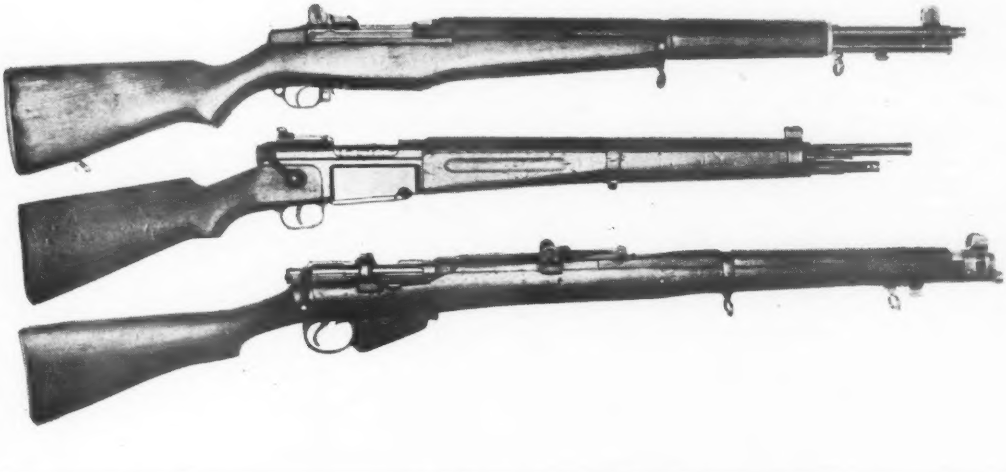
Have the three nations progressed? Not very far. A few spark plug specifications have been standardized (the British call them 'sparking' plugs), and a 24-volt electrical system for vehicles has been arrived at. But—most important—the basic field at which the program was aimed, small-arms ammunition, still remains a dark, vague area of disagreement, four years after the pact was signed.

Why? Because the oft-wounded British lion, whose prestige had been dropping around the world since World War II, and the stubborn, hard-headed, United States Army cannot get together and work out an amicable solution to the standardization of small-arms ammunition. The troubles and jealousies are bound up in a couple of experimental, lightweight automatic rifles, the British .28 caliber and a lightweight, automatic, .30 caliber rifle being developed by Army Ordnance.

Since the end of World War II, Army Ordnance has set out to perfect a lightweight, automatic rifle to replace the Garand M-1, carbine, and to a certain extent the Browning automatic rifle, and the submachine gun. Ordnance initiated the work in 1945. Two years later, by the summer of 1947, it was firing the rifle. Though most of the experimental development work has been cloaked in customary Ordnance secrecy, the public, through the medium of congressional hearings, and a few guarded press releases, has had hints about the rifle. It is common knowledge, for example, that the rifle was called the T-25, that it had a twenty-round clip, weighed seven pounds, and had a cyclic rate of 700-800 rounds per minute.



Though France has small quantities of a semiautomatic rifle, these arms—U. S. Garand M-1 in .30 cal. (top), French MAS 1936 in 7.5 mm. (center), and British Lee-Enfield in 1303 cal., used by Canadians also—are at present service arms of nations which met recently in Washington to adopt a standard caliber automatic rifle

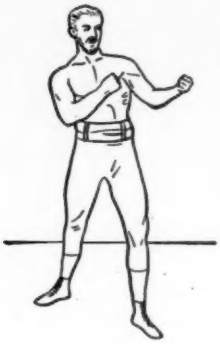
However, Ordnance was able to keep the details of the new round more closely hidden. Here, published for the first time, are a few scant details about it. It is short, about the length of the .300 Savage, rimless, and light, about half the weight of the M-2 round. For its size, it packs a terrific whallop, at least as great as the punch of the M-2. Though first fully experimental, the round has now reached the stage of acceptance by Ordnance's highly critical review boards.

The T-25 rifle itself got off to a 'terrific' start considering that it was purely a research and development weapon. The first few models were equipped with a straight stock, pistol grip, and high sights. Some of the evaluation shooters complained that the stock was hard on the shooter. But its accuracy was top-notch. Even after thousands of rounds of sustained fire, the barrel remained as true as it was when the first shot was fired.

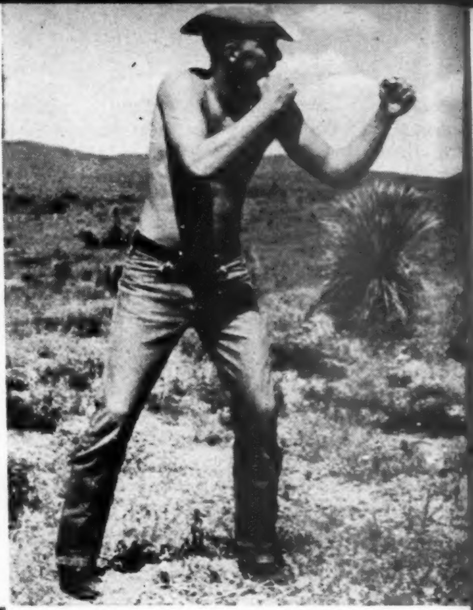
Later, Ordnance put another automatic rifle into competition with the T-25. Though its model number and performance are still secrets, a few details of the gun can be included. It is equipped with a conventional stock—the Garand stock as a matter of fact—a muzzle break, and a lever which permits the shooter to shift from full automatic fire to semi-automatic fire at will. Its performance has been as good as the T-25, and the two rifles are still in competition today. Presumably Ordnance will adopt one or the other when the signal is given to switch to the new round. But the rifles are by no means perfect at this point.

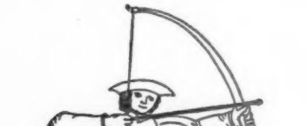
Ordnance has set its sights high: the requirements are enough to stagger an ordinary gun designer into the nearest bar. The rifle must weigh in the neighborhood of eight pounds (complete), must have full automatic fire, and the usual high rate of reliability. The new rifle that Ordnance selects must do everything the Garand M-1 can do, and more. And it will be costly! Not only must Ordnance convince Field Forces that it has a rifle that meets its specifications, but it must also sell Congress on the need for a changeover that might eventually result in the spenditure of billions of dollars, not to mention all the M-2 rounds and M-1 rifles that would be made obsolete by the switch. Still fresh in the mind of most Ordnance experts is the stormy period it weathered during the switch to the Garand in the late thirties. Ordnance is in no mood to take on a hostile press and inquiring Congress, until they are sure the new rifle can do what the Garand can do. But when the day comes, Ordnance will be ready. Already they have drawn up charts to prove to Congress that a shift to the lighter round and lighter rifle will eventually result in a savings to the U. S. taxpayer, since they will be able to make twice as many rounds for the same weight of material.

Though Ordnance has perfected the cartridge to its satisfaction, no gun expert will, even unofficially, guess at how long it will take to perfect the rifle. *(Continued on page 35)*



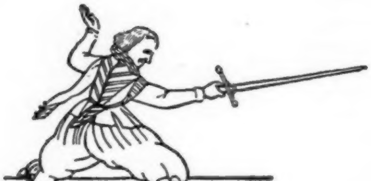
1 Throw up your 'dukes' and you instinctively balance on toes. Hold it—throw away your 'dukes' and pick up your shotgun





2 In archery the hand drawing the string is brought back to exactly the same point on the cheek, jaw, or neck for every shot. 'Check' the shotgun in the same way

By C. M. Palmer, Jr.



3 Footwork and form are as important to the shotgunner as to the fencer. Balance is attained by the proper footwork and form

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SEP

THE ESSENCE OF Wing Shooting

Part I

"ANYONE CAN learn to shoot any gun," Jim Craven said to me many years ago, and I knew him well enough to listen closely. Jim was an English game-keeper of the old school, and there was every reason to accept his word as gospel on almost anything pertaining to guns, game, and shooting. He had been raised among guns and game, and he knew them thoroughly. He was especially proficient with the smoothbore—a top-notch wing-shot.

In Craven's words there should be a lot of encouragement to youngsters and other neophytes in the shooting game whose efforts are, of necessity, restricted to one gun. My own experience with many different guns over many years has proven to my satisfaction the fundamental truth of Craven's statement. I have learned to shoot guns which, at first, really gave me trouble. The only reason I kept trying with some of them was because of the challenge in those words.

One gun, for a while, had me buffaloed. It was a 16-gauge Greener belonging to Hal Sheldon—a beautiful piece but stocked much straighter than any of my own guns. I shot high with it consistently. But Sheldon let me take the gun and sweat over it until I really did learn to pull my patterns down to where they would do some good. That was, in my opinion, a real test of Jim Craven's theory.

There is another well-worn warning among shooters that might bear repeating. I cringe a bit when I break this one out but the essential truth in it bears me up: "Beware of the man with one gun." Sure, you've heard it and so has everyone who has done any amount of shooting. The reason it has been worn so thin and still holds up under the ravages of time and use is because of the simple truth of it. When a man shoots one gun for all of his shooting, he gets to know it pretty well. He becomes far more intimately acquainted with it than do we who spread ourselves thin among too many weapons and never really get to know any of them.

The one-gun man learns just what he can reasonably expect from his gun under any and all circumstances, and how he has to handle it to get the best results. The gun becomes a part of him and he a part of the gun. Between the two is built up the kind of team relationship we should all strive for in shooting.

Most Americans who shoot these days have but one gun, and these two thoughts should give them something to chew on. Too many young men have no guns at all and know less than nothing about handling them. Methinks the time is ripe for every young man to arm himself properly and learn to handle his weapon. It has been a long time since a war has been fought on American soil—but the affairs of the world today are not too comfortably settled to preclude the possibility.

To those young Americans who have but one gun, shotgun or rifle, I therefore offer those two statements with all the truth and encouragement they hold. A few suggestions regarding the handling of that one gun may not be amiss and are therefore offered for what they may be worth in backing up those simple statements. These suggestions will be confined to the smoothbore and wing shooting, though much of what is to be said can also be applied to snap-shooting with a rifle.

It will be remembered that Craven said "anyone can *learn* to shoot any gun." Get that point clear. You must *learn* to shoot your one gun. Now, learning something takes time, thought, and intelligent application. You don't just go out and do it. You study, make errors, repeat the process, until you get it right. Our first shooting may, and probably will, be full of mistakes and errors. Don't let them discourage you. Make your mistakes pay dividends. Learn from them. We learn much more from doing things incorrectly than we can possibly learn from doing them correctly the first time. It makes us give thought to what we have done, and why we did it as we did. It makes us study the proper way to do things, and from study we acquire knowledge. So study and learn, and do a lot of shooting.

Quite probably one big reason so many hunters never learn to shoot is that they never touch a gun except during the hunting seasons. That is wrong. Shooting, like golf and many other outdoor sports, should be a year-round sport or diversion. If you like to shoot, there's no reason to put up your guns just because there's nothing legal to kill. Informal or formal target shooting and plinking can be and is fine sport. Clay targets are inexpensive, and with a good buddy to throw these clays from a cheap hand trap, you and your pals can have available many wonderful days of fine shooting.

Then, there are crows in abundance over most of the country, and they afford the utmost in sport shooting when you learn how to utilize them. Moreover, in many sections their numbers are so great that they must be controlled and reduced. You can do an economic service in helping to control these wise birds.

In learning to shoot, *actual shooting is a must*. But there is another form of shooting that will give you a world of regular practice in gun-handling that you cannot get in any other way. Called 'dry-shooting' or 'dry fire,' it is simply the business of going through the motions of shooting indoors, in your own room, every morning and every night, whenever the opportunity offers to pick up the gun and handle it unobserved. Keep your shotgun standing conveniently where it may be picked up at any time during the day for a few seconds practice in gun handling.

Mount the gun to your shoulder and follow an imaginary target through its course across the wall. Come up behind your target, pass it, and—allowing the proper amount of lead—touch off the load and drop the bird. Don't stop there, however. Follow-through properly and then bring down the gun from your shoulder. It may sound simple-minded but it's not. It's good gun handling procedure which will put you months ahead of one who doesn't indulge. (Be sure to keep a piece of oilsoaked sheepskin or cloth handy in an old coffee can to wipe off the piece when you have finished.)

A well-balanced team of a man and his gun is an effective shooting combination. Without the gun, you can't shoot. And without you, the gun can't shoot. So aim to build yourself and your gun into a team, a well-balanced, well-coordinated team that brings back the bacon. Nothing will make observers realize the truth of the statement about the 'man with one gun' so much as the actual sight of such a combination in action.

Building a shooting team or a team of any sort is very much like selective breeding of livestock. The good features of one member are used to compensate for the weaknesses or shortcomings of the other. Don't be too concerned about the fit of your gun at this stage of the game. Gun fit is a subject for advanced shooters and then only for those who can afford expensive custom-built weapons. Some writers on shooting overwork the subject, almost, I sometimes think, to the detriment of the whole shooting game. Remember that "anyone can learn to shoot any gun."

Factory guns, like military weapons, are turned out to fit the average among us. When you enter military service, you are not measured for a rifle. You learn to fit yourself to the standard arm and, furthermore, you learn to shoot it. You have no alternative. The gun is the fixed, unchangeable member. You are the soft, malleable, changeable, temperamental, sometimes hotheaded member. Generally the gun functions consistently all the time. If your shooting varies from day to day, take a good long look in the mirror and meet the culprit.

Too many of us are prone to blame our shooting faults on our equipment. If you question this, just attend a few regulation trapshoots and watch some of the shooting psychos in action. Many of them have costly, custom-built, carefully fitted weapons to start with. And what these birds can do to a piece of beautiful Circassian walnut, shouldn't happen to a cactus.

Let's be honest with ourselves and place the blame where it belongs. Improve yourself and the team will work much better in the long run.

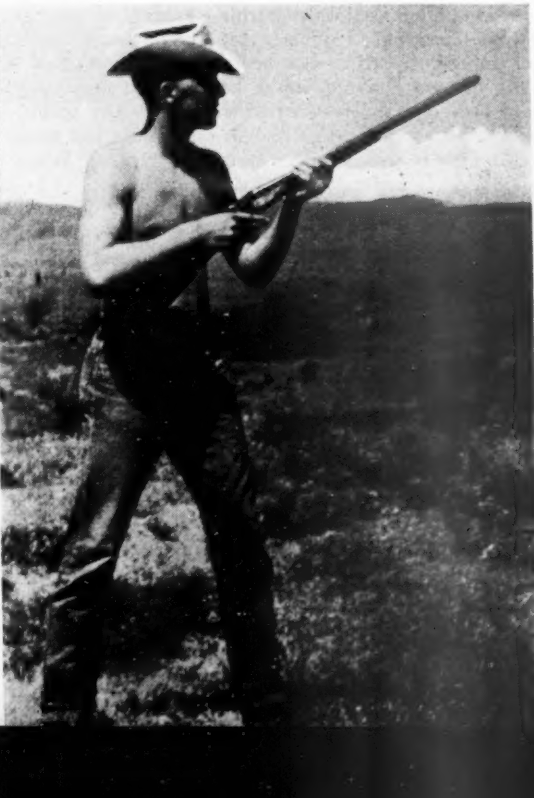
At the risk of seeming inconsistent, we must admit, however, that there are certain, shall we say, modifications that may be made at little or no expense to make that gun of yours a bit more your own size. In many cases you will be able to do these yourself, if you are at all handy with tools. You can, for example, lengthen the stock or shorten it as your conformation demands. You can raise or lower the comb. You can alter the pitch, if that seems necessary, or perform many other minor surgical operations to modify the piece to your requirements. There is little doubt that some of these will help to improve your shooting. But be sure to have the help and advice of an experienced wing shot before making any of these changes. When your gun 'feels right,' handling smooth and easy, stop right there and leave it alone. Learn to shoot it that way.

A shotgun is a precision instrument and should be treated as such. It should never be man-handled as a pick and shovel or a wrecking bar. I once loaned a fine Parker to a friend

4 Always handle your gun with the trigger hand, the control hand

5 You can do all your shooting with your control hand if necessary

6 The 'ready', and he looks it. Eyes are on the area target is expected to show; gun is in position with muzzle just below the line of sight from eye to target. A flick of the right wrist will bring the butt to shoulder



to be used under my own nose on my own place. When I protested his using it to poke and pry into piles of rocks and brush, he seemed quite put-out. He just didn't understand —and there are a lot of people like that.

Handling a piece calls for a fine sense of artistry and finesse. **Wing shooting** demands of the shooter more of these and a greater **amount** of sheer athletic prowess than does almost any **other form of** shooting. Combine artistry, finesse, and athletic prowess and you have the makings of good wing shooting. The good wing shot just about has to be an athlete. Every move of the man in the field with a shotgun may be compared with the movements of other athletes. Footwork is as important to the wingshot as to the boxer or the fencer; the swing and follow-through as it is to the golfer or the home-run slugger. Form is as important as it is to the archer. Study the photos of that youngster of mine which accompany this articles and you'll see what I mean. I had him strip down so that the position of arms, legs, back, and head were all as clear as black and white photography could make it.

Handle your gun lightly but surely. Use just enough strength to control the piece but not enough to throw it out of a fine balance. Don't try to 'bull' it through. Excess muscular effort builds up tension which can throw you completely off your stride. Take it easy.

If you are right-handed and shoot from the right shoulder, handle your gun with the right hand. Guide and point it with the left. In picking up any gun, always take it with the right hand on the grip—unless you're left-handed, of course. You can actually do your shooting with that one hand if you have to.

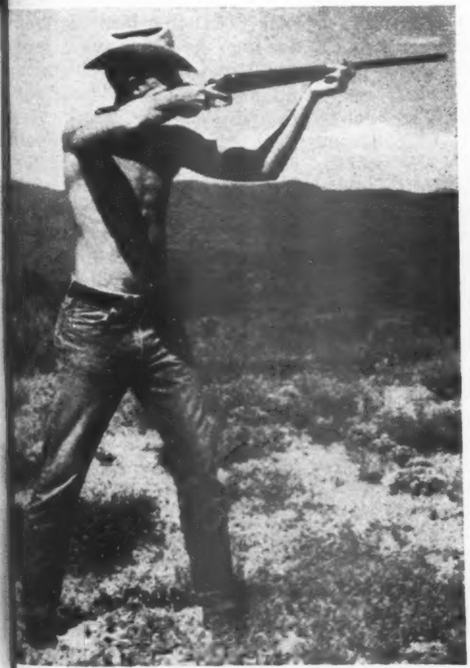
Now mount the gun to your shoulder with the control hand and place the other well out on the forearm to guide it and hold it steady. Try to see how easily you can do it, how quickly, smoothly yet surely. Practise the procedure constantly until it does work smoothly. Develop your own style or technique, one that breaks targets and brings home the bacon.

In archery, as I remember it, there are something like eleven things to be accomplished instantly, instinctively in the loosing of a single arrow. I'm sure we could find more than that in the firing of one shell from a shotgun if we tried. Let's start at the base and work up. You must have a proper base for your gun mount and therefore footwork is important.

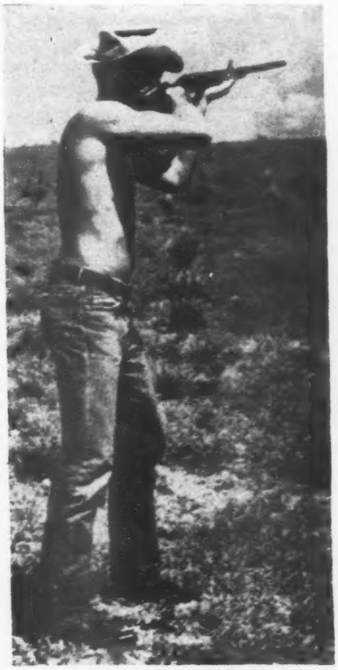
When he raises a gun to his shoulder, the shooter, like any other well-coordinated athlete is theoretically and actually 'on his toes.' The horseman calls it being 'collected'. Throw up your 'dukes' and you instinctively balance on your feet; hold it—throw away your 'dukes' and pick up your shotgun. You are now at the ready. Call for your target for you are all set.

Don't ever try to fire a shot unless your feet are well under you in a proper gun-mount foundation. The only time there is excuse to do otherwise is in heavy woodcock cover, snap-shooting at woodcock or grouse when they flush unexpectedly without benefit of warning from either bird or dog. Yet even here the experienced shot is pretty much 'on his toes'.

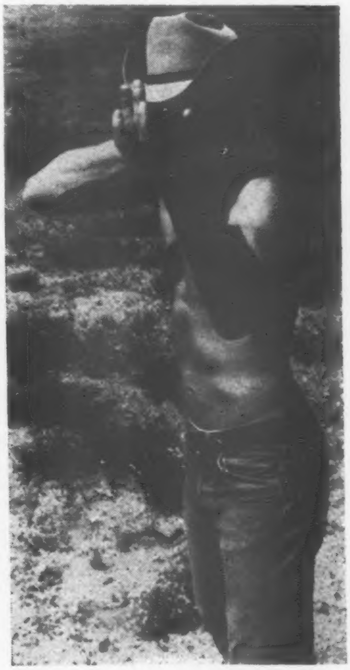
Well, there is point number *one*. Be 'collected', 'on your toes' like a boxer, ready to give or to take. Feet are well apart, knees slightly flexed, body forward learning gently into the piece from the hips, ready to absorb the thrust of recoil. (Let's see, now. That's points numbers *two* and *three*.)



7 **Here is your well 'collected' wingshot. Head is held high, gun properly cheeked, and under perfect control. Body balance is slightly forward into the gun on feet well spread for rapid movement of the body in any direction**



8 **A slightly different angle showing erect carriage, high head, cheeking of the gunstock, and position of the arms and feet as well as shoulders**

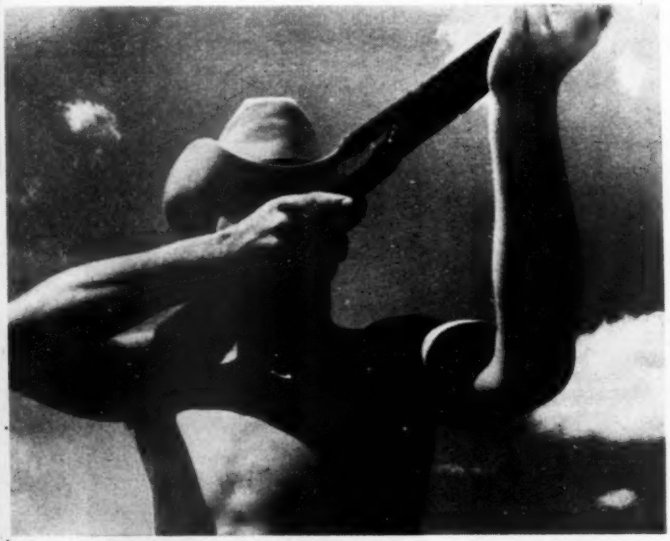


9 **Head on, but we checked the gun to be sure it's safe to look at the picture. Check carriage of head and body. Both eyes are wide open**

The back is erect with the slight concave arch of the good horseman in the small of it. (Point number *four.*) Shoulders are back and carried at about a forty-five degree angle with the axis of the gun bore. (Number *five,* that is.) Number *six* will be the elevation of the head and it is as important as it may seem complicated. The cheek should be down on the comb of the stock exactly the same for every shot. Yet the head should be held high and straight so that vision is direct and unimpeded. In archery an important point in the loosing of an arrow is that the hand drawing the string be brought back to exactly the same spot on the cheek, jaw, or neck for every shot. It is prerequisite for accurate shooting with the bow and arrow. This writer learned long ago that he cheeks his shotgun at exactly the same point on the jaw to which he draws his bow string. This is, so to speak, a fixed aiming point for this individual. It may not be so with you. With bow string or gunstock always at exactly the same point, you have a good start for your shooting.

Checking the gun while carrying the head high and straight is not difficult. Sometimes I think we make a mistake when we say 'get your head down on that comb'. It might better be said, 'Get that comb up to your cheek'. But whichever way you do it, do it consistently every time. Cultivate uniformity by constant practise.

We might consider point number *nine* to be the placement of the gun butt to the shoulder and the elevation of the right elbow backing up the stock. Do not try to cuddle the gun butt in the hollow of the shoulder. It can't be done unless you're a freak. The butt should be placed firmly against the forward part of the deltoid muscle. If you're not familiar with your anatomy, the deltoid muscle is the one which caps the shoulder. Rest the butt firmly against this muscle but do not try to hold it too hard. A hold too loose will give you a hard jolt from the recoil but a hold too hard is apt to throw you off your target. Just a firm, solid hold against the shoulder will do the trick.



10 **This gives a close-up of the butt on the forward part of the deltoid muscle. It shows elevation of the head, position of the arms, and the trigger finger outside the trigger guard, where it should be when not firing the piece**

The shotgunner does not ordinarily raise the upper arm to the horizontal position of the offhand rifleman. The position of this arm varies with the individual, however, to a considerable degree. In these photos this boy of mine holds his arm much higher than I do for example. But then he also holds his arm much higher for a rifle as is shown in photo number nine. Compare that with the shot (number 8) of him with a shotgun and you can see the relative difference. The thing to do is simply to hold the arm where it is most comfortable for you to hold it. After all, we can make all the rules in the world but the way for anyone to do anything is to do it the way he gets best results, the way it is easiest and most comfortable for him to do it. Some of our best shots are thorough-going nonconformists. Yet their scores tell the tale.

The position of the left arm is another point that will give opportunity for lots of differing opinions among experienced shots as well as among the new-comers. It will vary from the close-in vertical forearm of the rifleman to the long, straight arm of the Englishman. Probably the happy medium is holding the hand out to the tip of the forearm. Here again you will find your own particular position. There is no doubt that the Englishman does have something in the theory that the farther out you can get your arm the better you can control your piece. But holding bare barrels in hot weather while doing a lot of fast shooting is not the most comfortable thing in the world. Those barrels get hot and they'll burn anything, including fingers, hands, and even gloves.

Well, that should bring us past point number *ten* to number *eleven.* To open the eyes or not to open them is the question. But the answer is quite simple. When you want to see something you open your eyes wide, *both of them.* In shooting you need all the visibility at your command. Shooting with both eyes closed is, of course, silly. Shooting with one eye closed is almost as bad but not quite. You are at least using fifty percent of the available visibility. So open both eyes and use all the sighting equipment God gave you. This applies to all shooting but especially is it true of shotgunning. You do not aim your shotgun, you point it. There are no sights on your shotgun to line up. Sometimes I think it would be much better if the makers left that front sight off a shotgun. It is never used. I've seen men shooting a shotgun without the front sight when they didn't even know it was gone. See that youngster in photo number 9? If you look closely you'll see that both of his eyes are open.

I don't know why shooting with both eyes open seems so difficult to so many people. It probably derives from the traditional habit of learning to shoot a rifle without experienced coaching and lining up iron sights by squinting down them with one eye. When you get used to using both eyes and only practise will permit it, you'll find that it's by far the better way of doing things. A little experience will demonstrate what we mean by pointing, not sighting, a shotgun. In this short range form of shooting the gun is always held the same and the relative position of gun barrel and eyes is always the same. Experience will tell exactly where to hold and how to connect with the target at all ranges and under varying conditions.

It is important, however, to know just which is the master eye, and to learn to shoot from the shoulder on the same side. It is a bit awkward to try to shoot from the right shoulder with a left master eye.

What is the master eye and how can one tell just which is it? Well, it seems that everyone with normal vision has one eye slightly stronger than the other. This is the leader or master eye in the business of seeing, which includes sighting a weapon. The other eye willingly follows it.

To determine which is your master eye, simply point your index finger at a small spot on the wall with arm outstretched and both eyes open. Then close one eye. If the finger is still on the spot on the wall, the open eye is the master eye. If, however, the finger moves to the right or left of the spot on the wall, your master eye must be the other one. (*To be concluded*) ◆ ◆

AIMLESS FIRE

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THERE is considerable truth in the allegation," said Major General E. A. Walsh, president of the Nation-Guard Association, in a recent issue (July) of *The National uardsman,* "concerning the failure (of soldiers) to fire apons to the maximum in battle, and a seemingly all-around k of marksmanship in the Infantry . . . "

Apropos of the argument raging among officers of the . S. Army on the value of individual marksmanship Marksmanship and the U. S. Army," June, page 14), eneral Walsh continued, "Not so many years ago the Army t great stress on training in rifle marksmanship, and the arines still do. Within more recent times the emphasis s been placed on careers, . . . pay and promotion rather an . . . Infantry fundamentals, including small arms marksanship, which after all, is primary."

Many officers who advocate the doctrine of volume of fire a solution to the problem of getting soldiers to fire during mbat, go back to the study *Men Against Fire,* by Colonel L. A. Marshall, for justification of their attitude toward arksmanship training.

Marshall was one of the first to observe that only 25 to percent of men in combat fire their weapons during ttle. In his book, the result of a study made for the Dertment of the Army, Marshall cites, as an example of the havior of men under fire, one incident which occurred ring the night of June 10, 1944, along the Carentan useway. A battalion of the 502nd Parachute Infantry s strung along a narrow defile without cover. The men re exposed to the fire of the enemy positioned along a low ge in front of them which made a slight angle with the e of advance. The enemy was completely within view, d only about 300 to 700 yards distant. The officer in mmand of the battalion moved continually along the line the battalion, observing his men and keeping a weather e on the situation. Later, in the presence of the entire ttalion the officer said:

"I found no way to make (the men) continue fire. Not e man in tweny-five voluntarily used his weapon. There s no cover; they could not dig in. Therefore their only otection was to continue a fire which would make the emy keep his head down. They had been taught this inciple in training. They all knew it very well. But they uld not force themselves to act upon it. When I ordered e men who were right around me to fire, they did so. But e moment I passed on, they quit. I walked up and down e line yelling, 'God damn it! Start shooting!' But it did tle good. They fired only while I watched them or while me other officer stood over them."

"The broad inference to training," Marshall sums up the oblem of getting men to fire in battle, "is that it is unofitable in general work with the rifle to put the accent on . . clearly defined targets such as those used for record." t he qualifies that statement: ". . . without lessening the cent on marksmanship, we should put a great deal more musketry whereby the formations will acquire the habit massing fire . . . against whatever target may be designated."

"For the failure to fire weapons to the maximum in battle, number of reasons are advanced," General Walsh comments the doctrine of 'aimless fire' in the *Guardsman,* ". . . ck of confidence in their weapon; tendency to hoard amunition; lack of motivation; fear of retaliation; indolence, d all sorts of other reasons; . . ."

"Long ago, 3 June 1916 to be exact, . . . the Congress acted legislation for the encouragement and promotion of rifle practice, and . . . established a National Board for the Promotion of Rifle Practice. . . . On 14 February 1927 Congress further amended the Act by providing that annual National matches would be held, for the conduct of which appropriations were duly made. As a consequence, for many years until the outbreak of World War II, the National Board for the Promotion of Rifle Practice exerted great influence on the development of rifle and other small-arms marksmanship throughout the country. Annual matches, rifle, pistol and smallbore, were held at Camp Perry under the auspices of the National Rifle Association and the National Board for the Promotion of Rifle Practice and were participated in by the Army, Navy, Marines, Coast Guard, National Guard and civilians. As a result, thousands of individuals throughout the land trained long and faithfully and practiced assiduously in order to qualify themselves for such participation. While these matches were intensely competitive, the primary function, nevertheless, was to develop highly competent rifle and pistol instructors who would, on their return to their home stations, serve as instructors to those who were armed with the rifle or pistol or who were interested in marksmanship, and well did they fulfill their mission.

"Even the Congress, notwithstanding the laws which it has enacted, has failed for years to remotely support the National Board for the Promotion of Rifle Practice. . . . It has radically reduced or eliminated almost altogether the scanty appropriation for the development of Junior Rifle Clubs. *As a result, the National Board for the Promotion of Rifle Practice has become ineffective, and the Army, seemingly, is quite content to have it so.* (Ed's italics). No longer does this agency perform what was once a great mission.

"If it is a fact that soldiers fail to shoot while engaged in battle, have little faith in their weapons, and marksmanship is far from what it should be, then, perhaps, it is time that there was a return to the fundamentals and realities. . . . Let the Secretary of the Army fulfill his responsibility in the matter by seeing to it that the National Board for the Promotion of Rifle Practice is made to function. . . ."

". . . I have viewed with considerable apprehension," remarked General Walsh in a letter to the NRA Executive Director amplifying his *Guardsman* editorial, "a trend toward the preaching of false doctrines regarding volume of fire and the elimination of marksmanship.

"Perhaps you will recall that during World War I the French, because of tremendous losses in their infantry, had lost the will to engage the enemy and preached a fallacious doctrine that artillery conquers the ground. With the arrival of General Pershing in France and the organizing of the American Army, the fallacy of this doctrine was quickly exposed. I see something comparable in the American Army in connection with the failure to stress marksmanship. . . .

"I am hopeful," concludes Walsh, "that with the powerful influence of the National Rifle Association and riflemen everywhere, there may be a return to the good old doctrine of developing marksmen in fighting forces." ◆ ◆ ◆

BIG-GAME ANI

The swift little pronghorn an and i
of the most difficult animals ssfull
and wariness of the hunter who pe r

Wyoming Game & Fish Commission

the pronghorn

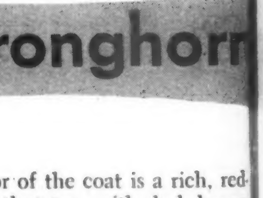
By John Moyer, Staff Associate
Chicago Natural History Museum

THE AMERICAN pronghorn—'jet propulsion of the plains' —is also known as the pronghorn antelope or just antelope. It is the fastest of all North American big game, having been clocked at approximately forty miles per hour. While the pronghorn antelope is the swiftest of native American animals, it is also one of the most inquisitive. Many old-time hunters can vouch for this interesting trait, often having deliberately aroused the pronghorn's curiosity in order to bring the animal within range. However, many tricks used today are not so successful as in earlier days.

The pronghorn may be said to have no close relatives, either in this country or others. While called an antelope, it is not related to the antelopes of Africa or Asia. There are two races, the American pronghorn *(Antilocapra a. americana)* and the Mexican pronghorn *(Antilocapra a. mexicana)*, in North America. Their original range extended from southern Saskatchewan and Alberta, south through the western plains area from central Nebraska to southern California, into Lower California, central Mexico, and also the western parts of Texas. The pronghorn still exists in various parts of its original range.

The pronghorn, in size, is a smaller animal than the more common whitetail deer. It has a rather chunky body supported on straight, slender legs. The head is distinguished by long, pointed ears, generally carried straight up; the tail is short and inconspicuous. The color of the coat is a rich, reddish brown, in some individuals rather tan, with dark brown or nearly black markings along the mane (which is very short) and neck. The lower parts of the body and both sides of the head are white, in some animals having a yellowish tinge. Underparts of the body are whitish, and the underside of the neck is crossed with two broad, white bars. The females usually exhibit less of the brown or black markings and are smaller in body and not as chunky in appearance as the males. The weight of the male will average 100 to 125 pounds, while that of the female is approximately ten percent less.

Pronghorn antelopes have three distinguishing physical characteristics: the horns, the hooves, and the white patch on the rump—sometimes referred to as the 'danger-signal.' The horns are relatively smooth, ebony black, and slightly curved, with a single fork varying in length. Like those of the oxen, goat, and Old World antelopes, the horns of the pronghorn are hollow, and in the shedding process, which occurs once a year (in fall or early winter), the old horn sheaths are loosened and fall off, leaving a permanent bony core ex-



(Continued on page 24)

LS of North America

and insatiably curious, is one
ssfully, requiring patience
ope meat or a trophy.

Phantom of the desert

By Helmut K. Buechner
Wildlife Management
State College of Washington

SHORTLY AFTER daylight on October 1, 1946, Doc Kennedy, Joe, and I were walking slowly up an arid southeast-facing slope in a corner of a huge pasture on the Kokernot ranch, where a concentration of pronghorn located the year around. About fifteen hunters had been assigned by the Texas Game, Fish, and Oyster Commission to this 10-section pasture that supported about one hundred pronghorn antelopes. As we suspected, some other hunters scared up the main herd as we sat leisurely on top of the hill. Two mature bucks and a yearling raced along a hillside far away; obviously they would never come very close. Joe scarcely had time to say, "It'll be a long shot, but I'm going to try," before he dropped one knee for an elbow rest, sighted through his Weaver K-4 scope, and fired. One shot and the buck went down permanently at a measured distance of 735 yards! Perhaps it was a lucky shot, but it illustrates that the phantom of the desert and semi-arid plains provides more opportunity for the rifleman to show his skill at long range than any other North American big-game animal.

The most important rule in pronghorn hunting is to keep hidden. Even the novice soon discovers that flat terrain is actually undulating or hilly, and that it is entirely possible to avoid detection. Ample opportunity for quiet stalking is provided by the cover of hills, yucca plants, spreader dams, draws or arroyos, sagebrush, and other features of the landscape. Antelope apparently feel safe as long as they can keep a hunter in sight and out of effective rifle range. Sight and speed are their perfected adaptations for coping with most enemies. One of the most crucial moments comes when the animals are initially sighted. Only a stroke of luck or clever action will prevent the pronghorn from detecting the hunter first. These little animals are as familiar with their home range as we are about our houses and yard. Any slight change in the surroundings is quickly noted. Different individuals in a herd repeatedly pop their heads up from feeding to scrutinize the immediate surroundings. If something unusual is discovered, the whole herd is soon gazing fixedly and nervously in the direction of the potential danger. Antelopes greatly exceed all other big-game animals in their ability to interpret stationary objects, and the slightest movement may stimulate them to run.

(Continued on page 25)

Buck antelopes have a distinctive jetblack spot immediately under the ear, making it possible to distinguish sex easily

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For their kindness in supplying data on harvests and inventory, I wish to express my sincere thanks to the personnel of the following State game departments: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, South Dakota, Texas, Utah, and Wyoming. My appreciation is also extended to Jack O'Connor and Herbert L. Eastlick for their comments and suggestions on the section concerning rifles, and to Drs. Eastlick and Robert F. Wallace for their helpful criticisms of the manuscript.

the pronghorn

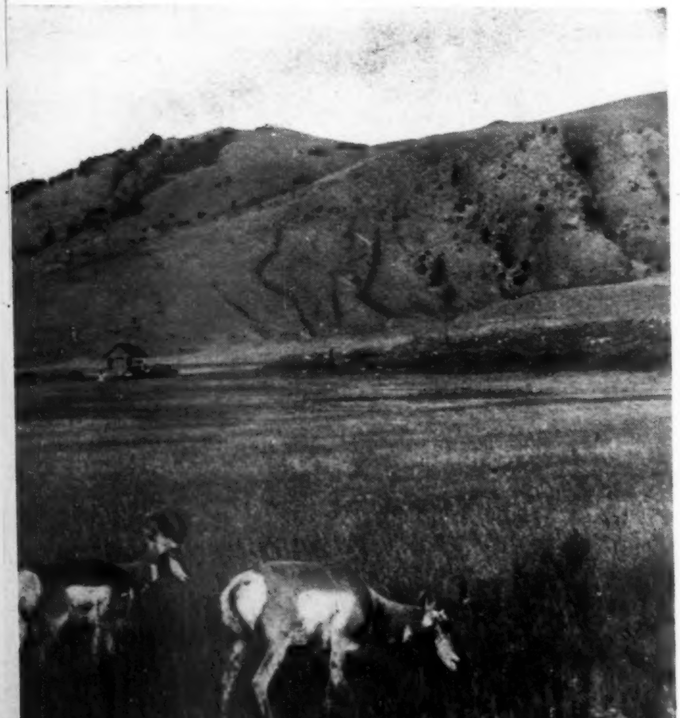
(Continued from page 22)

posed underneath. The antelope, at birth, bears an indication of the site where the horn will be—a small knob over each eye. At approximately four months of age, the knobs will break loose from the skin, being pushed off by the new horn, the first true horn, developing underneath. The new horn begins to grow on top of the bony core, which also grows with the horn sheath, and in approximately two months attains a length of three to four inches. The first true shedding takes place the following year, leaving the core attached to the skull. A new horn then starts growing from the tip, extending down and over the core until the base is reached, and the process is repeated at each succeeding shedding throughout the development of the horns. Each new horn, as it grows, is covered with a blackish skin, which is worn off by the animal rubbing it against rocks, small shrubs, and trees. The horns, worn by both sexes, grow larger each year until the animal reaches its prime, usually at five years of age.

The whitish-colored rump is often referred to as the 'danger-signal' because the white hair covering the area around the buttocks is capable of being erected, or 'flashed,' upon the first sign of danger. When one or more of the animals scents or sees danger approaching, the rump patch is raised immediately, and a peculiar musk odor is set free through a musk-gland located in the center of each rump patch. The quick white flash of the rump-hairs and the smell of the musk-odor can be seen and smelled by all animals, even those grazing some distance away. In this way, by sight and smell, is the threat of danger sent from one animal to another until the entire herd is at alarm and in flight.

The rutting season begins in September and lasts, as a rule, seven to eight weeks. The male mates with not mor than four females, although on rare occasions an old buc will be found with more. Fights among the pronghorn du ing the rut are not as severe as battles among other game.

Pronghorns feeding in Wyoming, the state which has the largest antelope population today, as well as the largest annual kill



The young are born in May or early June and, as a rule are two in number. At birth, the young antelope seems t be all legs, eyes, and ears, but after a few days they can stan and run after the mother for a short distance at a surprisin rate of speed. The mother, in hiding her young, which i sometimes a task out on the open prairies, will often separat them. By instinct the young seem to know that to escap danger their best bet is to lie perfectly still. As they give o no odor, and the markings of their coat blends in with th ground they are prone upon, the chances of being seen ar remote. After a few days the young are strong enough to travel with the mother, when they join a band of othe antelopes, mothers, young, and sometimes males being found in the group. The principal enemies of the pronghorn ar wolves, coyotes, and bears. The eagle has been reported to spot from the air the young hiding out during the first few days of life, and to carry them off to nests for food.

Antelope shed annually the blac sheath which covers the horn. Th new horn grows downward fro the tip of the remaining hard cor

The pronghorn is a browsing animal and the main item of diet on the plains is sagebrush. They will also feed upon many varieties of wild flowers, grasses, weeds, and at times will eat cactus, which grows plentifully throughout the greater part of their range. Near cultivated land, they do damage to the fields of oats, alfalfa, and other plantings, although it is doubtful that such damage causes significant economic loss.

Although the speed of the antelope could enable him to roam great distances in a short space of time, the animals do not wander far off a chosen range, providing food is plentiful. To get away from deep snows, when winter approaches, those animals that are in the mountains will come down into the valleys and plains, as their feeding is on the ground and they will soon starve if the ground is covered with snow and ice.

It is estimated that years ago the pronghorn were as numerous as the buffalo, with many millions roaming over the western range. Latest estimates give the number of the pronghorn within the United States as 181,200. ◆ ◆ ◆

Phantom of the desert

(Continued from page 23)

To outwit the pronghorn is no mean task. He is as unpredictable as the desert wind. His cunning and keen eyesight are a match for the most skilled nimrods. Seeing one's quarry at intervals in the open country adds much to the excitement and permits planned, strategic moves. Among the best trophies are solitary bucks that live away from the main herd except during the breeding season, which occurs mostly from August 20 to September 20. Most experts will agree that the preferred hunting technique is to out-maneuver a clever old buck and kill it with a single well-placed shot in the neck or heart. No thrill matches that of seeing a prize trophy go down after a long, tedious stalk in the hot sun.

Facilitated by rolling or flat terrain, much modern pronghorn hunting is conducted from cars in Texas, Wyoming, and other states. Arthur S. Einarsen, leader of the Oregon Cooperative Wildlife Research Unit, and others in Oregon, have contributed much toward encouraging and establishing good sportsmanship in that state. As a result, hunting with the aid of automobiles is prohibited by law. Where car hunting is permitted, herds are crowded into some remote pasture corner or into rough topography where the hunter may jump out for a quick shot. Cars are also used for stalking under the protection of hills, and unsuspecting pronghorns may be taken by surprise when the hunter completes his stalk on foot and appears suddenly on the crest of the hill above the animals. The pronghorn's instinct to run across in front of a vehicle has spelled the doom of many antelope. Mr. Einarsen once clocked a lusty buck crossing in front of his car while racing along a salt flat in Oregon at 61 miles per hour. The average speed for a herd ranges between 35 and 45 miles per hour and individual males at 60 miles per hour are exceptional. Fortunately, in most States chasing antelope at high speed is prohibited. Typical car hunting frequently involves a well-planned pincers movement by which a herd is slowly brought into range. Hunters may also be stationed while a herd is driven past by cars. An inherent behavior pattern among pronghorn antelope is to assemble from all directions when disturbed during grazing and flee together, stringing out single file. Almost invariably a fine mature buck brings up the rear and drops behind sufficiently for a clear shot. But remember—shooting into a compact herd is strictly taboo!

Stand hunting may be employed to advantage where crossings are located. Habits formed in escaping danger are so deep-seated in the animal that they are not easily broken even during the confusion of a big hunt. Some routes through narrow defiles are virtual death traps, and are known as 'slaughter gaps.' One party on a Texas hunt found difficulty completing lunch between kills made from a pickup truck parked in the middle of a crossing. After dressing out the first kill, preparations were made for the mid-day meal. The repast was repeatedly interrupted as antelope came into range—three more bucks were killed within 250 yards!

Frequently the comment is heard that shooting a pronghorn is as easy as killing a cow. Such remarks stem from exceptional luck. I remember well the cocky attitude of three members of the U. S. Border Patrol when we set up camp at an old shack in the desolate, parched country about 70 miles east of El Paso. The border patrolmen were deadly marksmen, at least with pistols. They pumped a Mexican ranchhand for the location of herds, got up late, and showed little surprise when an elderly preacher arrived in camp about 9:00 a.m. with a fine buck just as they were preparing to hunt. Not until the afternoon of the second day did the patrolmen make their first kill; the second kill was made the morning of the third and last day! I drove a car for one of the men for two days and placed him within shooting range at least ten times. Some shots were standing, most of them were running, and all were misses. The vehicle was almost wrecked on several occasions while driving over rocky terrain and through desert scrub where no car should have gone. Every ounce of effort was placed in six final shots at a running buck 200 yards in front of the car. Invariably the shots fell behind the animal, demonstrating that long leads are essential and that the speed of the pronghorn is often underestimated. No man could have depleted the cockiness of the border patrolmen or made them into real sportsmen more effectively than the fleet-footed antelope!

During the 1942 hunt in Arizona, 100 hunters confessed to shooting about sixty rounds each with still no hits: an average of about five shots was required per antelope killed. Bagging a pronghorn is an accomplishment rating high esteem.

The pronghorn's insatiable curiosity has been responsible for many successful hunts. In remote pastures where they seldom have an opportunity to see cars or people, pronghorns are noticeably wilder than elsewhere, yet even there their fear of man is readily overcome and they may approach to within fifty feet of an observer. Among the wildest antelope, of course, are those that are hunted. The patient hunter has many chances to exploit the curiosity of the pronghorn, provided he can escape the disturbances caused by the activities of other hunters. Many stories have been written about attracting pronghorn by using white sheets to cover the body, waving white flags, or kicking one's heels while in a reclining position. Such techniques seemingly are no longer effective, perhaps because of the animal's greater familiarity with man today. The best way to utilize the curiosity of the pronghorn is to wait patiently if detected and allow the animal to approach for investigation. On one occasion, while I was sitting quietly on a hilltop, three magnificent bucks approached to within thirty feet! The animals snorted frequently and

To bag an antelope trophy is usually a feat of marksmanship, pronghorn sometimes being taken at extremely long ranges

showed fear by upraised hairs on the back of the neck and the white rosette patch on the rump.

Inexperienced hunters should have little apprehension about distinguishing sexes now that pronghorn hunting has become well established as a permanent sport. Pointers are available from other hunters, State game departments, literature, and other sources. In 1938, when Oregon held its first modern hunt, shooting either sex and all ages was permitted because the State Game Commission feared hunters would not readily distinguish between bucks and does. As a result, some large herds were nearly annihilated. Actually, it is simple to identify sexes, as Oregon hunters now know. Bucks have a distinctive jet-black spot on the neck immediately under the ear, and more black on the muzzle; male horns exceed the ears by 6-8 inches while doe horns are usually less than ear length. If the sexes are indistinguishable, the hunter is out of shooting range! Buck hunts are still essential in some states where it is desirable to increase populations. Over much of the range, either-sex seasons have become increasingly necessary to prevent over-populations and maintain the herds within the capacity of the range vegetation.

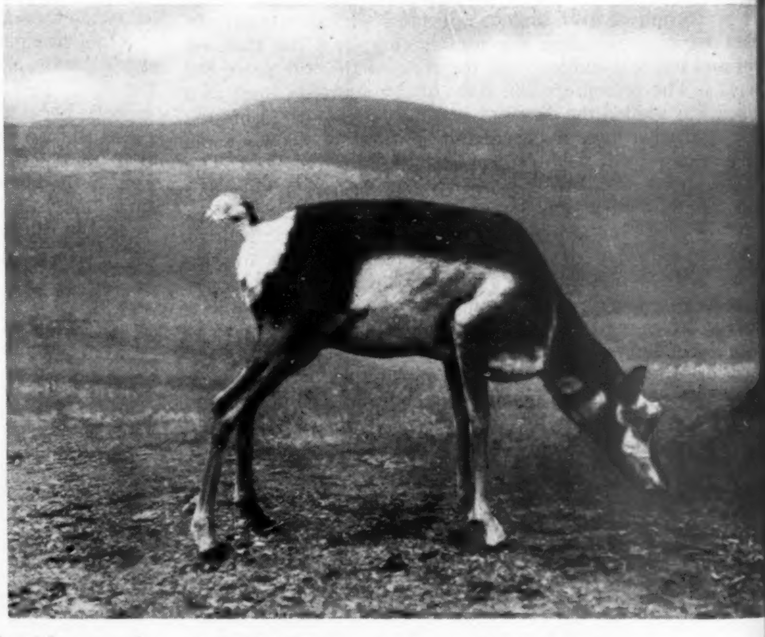
Probably it would be more difficult to recommend one rifle above all others for pronghorn than for any other big game in this country. During the Texas hunt in 1946, 24 percent of 206 rifles checked by the State Game Commission were of .300 Savage caliber, 24 percent .30-'06, 15 percent .270, and 11 percent .30-30. Only one .300 Magnum was used. In a recent discussion with Jack O'Connor, I found that for pronghorn he prefers a standard 130-grain bullet in a .270. The flat trajectory of the .270 offers considerable advantage in long-distance shooting such as we are concerned with. As indicated by the Texas figures, the .30-'06 is among the popular pronghorn rifles. The 150-grain bullet probably gives the best performance for the .30-'06 and the various Magnums. Without doubt the .300 Magnum is an excellent rifle for pronghorn because of its accuracy at long range, especially in the hands of an expert marksman. For the amateur it may prove to be a lot of rifle for the little antelope. I once saw the lower back of a buck blown to bits by a Magnum; most of the choice meat was completely lost. Other rifles to be recommended for antelope include the .257 Roberts, .270 Magnum, 7 mm., and Improved .30-'06. For the 'wildcat' rifle enthusiasts, antelope provide game par excellence. Opportunities for testing skills with special designs in rifles and loads are unlimited. Everyone has his own preference of course. Keep in mind that the animal is usually shot at long range and that he has to be hit hard. Preferably use a rifle with a muzzle velocity of at least 2,500 feet per second.

Pronghorn rifles should be equipped with a four- or six-power scope of the finest definition available. In addition, good binoculars or a spotting scope should be employed for locating the animals. The rifle should be sighted in for the best trajectory as indicated by ballistics tables and checked by actual performance on a rifle range. Much crippling loss may be eliminated by using good scopes and by proper adjustment of sights prior to the hunt.

Fred W. Johnson, Wildlife Manager for the U. S. Forest Service at Missoula, Montana, tells of shooting at the first pronghorn in a herd that was running single file and hitting the third! It takes plenty of skill to lead properly. Leading is more of an art than a science, and each shooter mus develop his own technique. As a rough indication of th long lead necessary for the fast-moving pronghorn, perhaps sustained lead of about two lengths may be suggested fo a distance of 200 yards with the animals moving about 4 miles per hour.

The American antelope is an excellent trophy animal; an where populations are vulnerable to heavy hunting pressure trophy hunting for sport should be emphasized. Wilso Potter's buck, which was taken about 100 miles south o Tucson in 1899, is still the world record head. It measure 20-5/16 inches on the outside curve of the right horn. Ac cording to Catherine Sayers, secretary of the Boone an Crockett Club Committee on Records of North America Big Game, a new record may appear in the 1951 compet tion. The owner's unofficial measurements are 19-13/16 an 19-¾ inches. Contrary to what one might expect, the bi gest heads do not all come from the northern ranges, but ar distributed from Alberta, Canada, to Chihuahua, Mexic According to Jack O'Connor, the region from the Anderso Mesa in Arizona east to the St. Augustine Plains in Ne Mexico produces the majority of big trophies.

The remarkable recovery of the pronghorn from near ex tinction to large, secure, huntable populations is one of th milestones in conservation history. E. W. Nelson, in hi summary of the status of the pronghorn in 1925, points ou that antelope originally outnumbered the bison where the occurred together. From thirty to forty million, the pronghorn dwindled to less than one percent of their former range. An estimate made during the period 1922-24 placed the entire U. S. population at 26.604. The increase was extremely slow at first, but the population began to climb rapidly about 1937. The peak was reached in 1946 when 233,900 were reported. A slight decline occurred during the next three-year period: in 1950 the animals began increasing again.



The small knob over the eye, on which the hard core of the horn will grow, is easily visible on this young antelope

The information in the table below is presented as a guide in planning anticipated pronghorn hunts and as an indication of harvest trends. It is obvious that Wyoming offers the most attractive possibilities for the non-resident hunter. The fee is only $25.00, the 1950 harvest was 22,792, and the success ratio was 95 percent. Montana provides the best second choice with a substantial harvest of 7,300 and a success ratio of 92 percent, but the high non-resident fee of $105.00 may be prohibitive for many hunters. Apparently Wyoming has been attempting to secure an adequate harvest since 1943, yet populations have continued to soar, and in 1950 the kill may have approximated the harvestable increase. Even the 30 percent harvest obtained last year was probably below the actual potential available to the hunter. Incidentally, pronghorn in this state provide approximately one-third of all the big game killed annually. Using Wyoming as a standard, it will be noted that all other states seem to fall far below their possible harvests. Only Montana and Colorado approach sensible utilization of the resource. New Mexico showed the lowest harvest with a 1950 population of about 23,000 and a kill of only two percent. Oregon also has a healthy population now of about 15,000 and a low harvest of about five percent. Evidently Oregon sportsmen and biologists have been successfully building back antelope herds from the low of 9,600 that occurred in 1946.

Union Pacific Railroad Photo

Andy the Antelope, pet at Sun Valley, Idaho, takes gunfire in his stride as trapshooters compete in the resort's annual tournament

Small harvest in states such as Arizona, California, Idaho, Nevada, Texas, and Utah represent one of the management techniques being used to restore large populations over suitable range. Trapping and transplanting programs are actively underway in these states to establish the animals on unoccupied range. Strangely enough, pronghorn spread slowly or not at all to new range, although it may be readily accessible, and require the helping hand of man. Once the populations are well distributed and secure, larger harvests may be expected. We are still acutely aware that this animal was on the road to extinction only 25 years ago. Perhaps it is wise that state game departments are harvesting them cautiously. Once the herds become well established, as in Wyoming, Montana, and New Mexico, huntable surpluses should be harvested each year with either-sex seasons.

It comes as quite a shock to most hunters to discover that ranchmen in Texas are permitted to charge $40.00 per buck for the privilege of hunting on their land. In Wyoming $3.00 of the resident license and $5.00 of the non-resident license is contributed to the landowner. Such fees are not requested in other states. Seemingly, this procedure conflicts with the popular conception of the American heritage of free hunting. From the point of view of the ranchmen in these two states, the practice is perhaps justifiable on the basis of damage by hunters to roads and range vegetation, particularly during wet weather. Originally the fee was established in Texas to compensate for the cattle forage lost to pronghorn through competition for grass. My personal research has shown: (1) In Texas antelope feed only about *four* percent on grass, (2) the staple diet consists of 66 percent forbs (weeds) and 30 percent browse, (3) only about 20 percent competition exists between cattle and pronghorn, and (4) 47 antelope must be removed for each cow added to the range. Therefore the fees are not justifiable as a remuneration for damage to range vegetation caused by antelope. Indeed, pronghorn inflict less damage on the range than any of our other hoofed game. They keep down weeds that are undesirable from the livestock-raiser's viewpoint, encourage growth of grasses by reducing competition from weeds, cause a minimum of accelerated soil erosion by making few trails and by their open grazing pattern, which is often shifted about the range, and consume large quantities of plants poisonous to livestock.

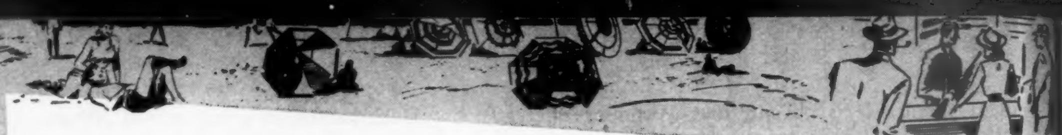
In this unique North American mammal we find one of the most appealing sources of recreational pleasure for the ardent rifleman. Through the application of conservation principles and sound biological management, this great resource which satisfied about 36,000 successful hunters in 1950 may be perpetuated indefinitely. Long live the pronghorn—phantom of the desert!

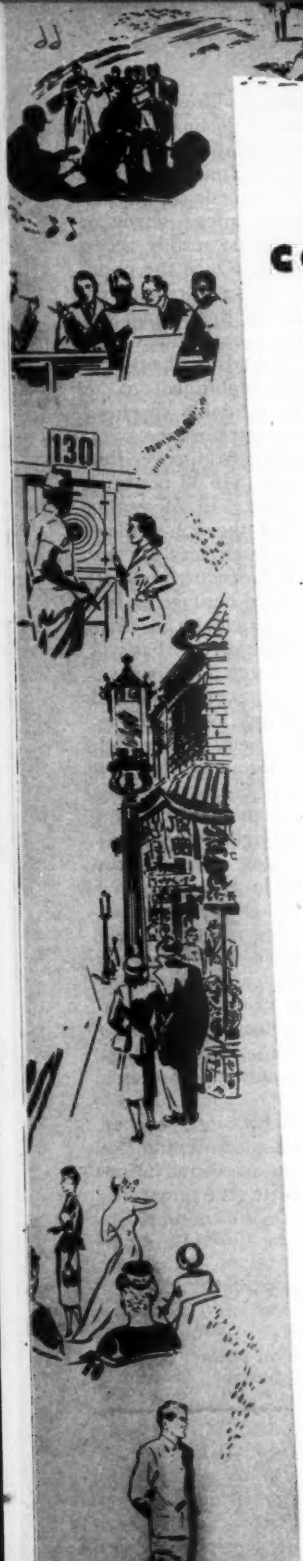
◆ ◆ ◆

PRONGHORN KILL BY STATES, 1940–1950
(Seasons entirely or in part either sex italicized)

State	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	% of 1950 Population Harvested	1950 Success Ratio (%)
Arizona	0	286	487	522	0	0	0	0	0	437	382	..	76
California	0	0	405	362	322	307	0	0	0	349	0	7	70
Colorado	0	0	0	0	0	*834*	*1,113*	0	0	*1,129*	*2,148*	12	90
Idaho	*385*	*579*	*790*	*700*	*1,470*	*562*	0	*461*	*420*	*383*	*539*	6	81
Montana	0	0	0	*750*	*650*	*1,395*	*1,930*	*2,725*	*2,675*	*3,183*	*7,300*	16	92*
Nevada	0	0	0	250	135	130	*386*	*355*	0	0	125	3	44
New Mexico	516	455	547	657	*608*	*286*	0	441	466	652	493	2	80
Oregon	*399*	*1,378*	*594*	*691*	*712*	328	0	0	0	586	678	5	47
South Dakota	0	0	597	909	454	0	594	*1,875*	*2,371*	0	*759*	7	92
Texas	0	0	0	0	297	323	395	578	617	0	375	5	93
Utah	0	0	0	0	0	*50*	64	88	0	43	25	3	71
Wyoming	3,267	5,337	6,050	14,683	10,573	17,143	9,109	10,521	15,912	11,340	22,792	30	95
Total	4,567	8,035	9,470	19,524	15,221	21,358	13,591	17,044	22,461	18,102	35,616	9	83

* 60% bucks.





CONVENTION Program

Saturday — October 6

Formal presentation of awards – National Smallbore and Pistol Championships

Opening of Convention Exhibit Hall

Sunday — October 7

Convention Registration

Convention Exhibits

Monday — October 8

Convention Opening Session

"Get Acquainted" Luncheon

Bay Area Sightseeing

Firearms Legislation Program

NRA Instructors' School

Evening Roundtable

Convention Exhibits

Tuesday — October 9

"Marksmanship Training—for Safety and Defense"

"The NRA Club and National Security"

Official Referees' Luncheon

Ladies' Luncheon and Entertainment

"Rifleman Dope Bag" Forum

Pistol Committee—Open Hearing

Smallbore Committee—Open Hearing

Official Referees' Meeting

NRA Instructors' School

Evening Roundtable

Convention Exhibits

Wednesday — October 10

Trailblazer's Breakfast

High Power Rifle Committee—Open Hearing

Junior Committee—Open Hearing

"Rifleman Dope Bag" Forum

Annual NRA Members' Meeting

NRA Instructors' School

Evening Roundtable

Convention Exhibits

Thursday — October 11

"The Rifleman in Conservation"

Invitations for Future Conventions

Recommendations of Standing Committees

Special Trips and Entertainment

Convention Exhibits

Members' Annual Banquet

Friday — October 12

NRA Board of Directors' Meeting (Members Invited)

NRA Board of Directors' Luncheon

NRA Executive Committee Meeting

★ Sept. 27-30	**.30 cal. Nat'l Championships**
★ Sept. 29-Oct. 6	**Pistol Nat'l Championships**
★ Oct. 3-6	**Small Bore Rifle Nat'l Championshi**

NRA ANNUAL CONVENTION

SAN FRANCISCO, CALIFORNIA

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Waterloo, Iowa

"I can't think of a thing that would improve this last convention. Commercial was good. The business sessions were short and to the point. The fellowship was fine."

Valentine G. Ricker
Poughkeepsie, New York

"Denver was a darn good convention and enjoyed by all! I drove 3000 miles to attend and it was worth it!"

J. N. Hogan
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"I think it can be summed up in just a few words—'Just fine!' I go to lots of conventions, and while the NRA are newcomers in this field, you're sure doing a wonderful job. Everything was well planned and it was a honey of a gathering—interesting and informative. Glad I was again able to be among those present."

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"A very fine convention, of great value to those who attended and to the NRA."

Col. Charles E. Stodter
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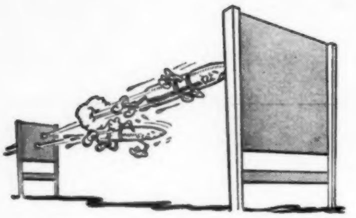

WHERE THEY HIT!

Rifling Twist and Bullet Flight

BY ROBERT HUTTON

Three years ago, with the help of some thirty shooters who were participating in the development of a modern cartridge, the writer began a series of tests to see what wildcat cartridges would do as regards accuracy and trajectory. These tests, now complete and reported upon in the American Rifleman in .25-caliber (November 1949) and in .30-caliber (March 1951), show that all of the wildcats selected for the tests delivered faster velocities and better accuracy than any standard cases.

All of the shooting was in the form of drop shooting after each load had been zeroed at 100 yards. When possible, velocities were chronographed. We do not know pressures.

What we did not know when tests were started was that barrel twist made any great difference. It was presumed that the chap who designed a cartridge knew also what twist barrel his cartridge would require, and if he stayed strictly with the Greenhill formula* that is where it seems he may have been sadly mistaken.

Sir Alfred George Greenhill (1847-1927), English mathematician, who worked out the accepted formula for determining twist of rifling, was a lecturer in mathematics at Emmanuel College, Cambridge, 1873-76, and a professor of mathematics to the advanced class of Artillery Officers, Woolwich, from 1876 through 1906.

The Greenhill formula, which states categorically the twist a rifle barrel should have, has been accepted as the standard authority by factories, individual designers, and careful handloaders since the middle of the 19th century. Translated by Al Barr the application of the Greenhill formula to modern bullets is as follows:

	Length (inches)	Twist (inches)
.25 caliber 100-grain Sierra	.975	9.4
.25 caliber 117-grain Sierra BT	1.125	7.98
.270 caliber 130-grain Sierra	1.10	9.50
.270 caliber 150-grain Sierra	1.27	9.00
.30 caliber 150-grain Sierra	1.08	12.30
.30 caliber 180-grain Sierra	1.25	10.50

What we learned through these tests was that the formula for determining twist is not always reliable. To know a rifle and cartridge, it is necessary to study the bullet in flight with specific reference to how and when and even why it hits the way it does!

As the shooting got under way new problems were presented. These problems had not been overlooked—we just did not recognize their importance. For one thing, barrel twist was a subject that was stated in the results, but until we were in the middle of the .30 caliber shooting it was passed over lightly. Now we are trying to go back somewhere near the beginning and obtain causes as well as results.

The tests reported in this article are the results of a study of barrel twists. The rules were formulated by the ablest ballisticians in America, the best shooters (bench rest) that we could obtain were glad to participate, and the best-known manufacturers of wildcats made up special guns for the test.

Bullets of known excellence were selected, and the design of them happened to be one of conventional shape and weight, it was liked by the shooters themselves, and it had the spiritual blessing of the Greenhill formula.

Only three calibers were chosen—.25, .270, and .30. The bullets were the 100-grain Lassen Gunshop (Moffat) in .25 caliber, the 130-grain Sierra flat-base in .27 caliber, and the 180-grain Sierra flat-base in .30 caliber.

In each instance, the manufacturers volunteered to donate all bullets, and our thanks for their interest is expressed, we believe, in the results that were obtained and are shown here.

Now let us study the results in the tables. Those statistics when studied a little by the shooter, whether he be of target or hunter species, tell many amazing stories.

For each caliber, identical bullets were fired in different twist barrels—sometimes, but not always with the same load. For reasons we shall see, there was a specific reason for choosing two standard cartridges and the balance wildcats. There seemed to be no reason to pit a .257 Roberts cartridge against the .250 Savage because that would be the easy way to check a 10-inch twist against a 14-inch twist and standard velocities. That was done in the .25 caliber wildcat test (November 1949) and the same results appear in every manufacturers' catalog.

But to learn what a .30-'06 would do with 14-inch twist we had to get out and shoot. This, and similar results, may be compared.

Now look at the tables. Since all of the cartridges were zeroed at 100 yards, the final proof of excellence is the 500 yard drop reading in inches. From that data you will get in a glance a quick explanation of what we are talking about.

Now for the conclusions:

1) Standard twists based upon the Greenhill formula are correct for standard factory cartridges in .25, .27, and .30 calibers.

2) Slower twists are needed when the same bullets are fired at velocities above 3,200 feet per seconds.

3) Fast-burning powders may be used in relatively light target or grouse loads provided the bullet designs agree pretty closely to the Greenhill formula rules. You simply convert your fast shooting wildcat into a standard or substandard cartridge ballistically.

4) In the largest cases, such as the wildcats based upon the .300 Magnum, there is every indication that more is needed than a slower twist barrel, and that is a slower burning powder. One specific test to be described later may not be regarded as enough to prove this point, but it does provide an indication.

5) The most efficient load for any cartridge is the one in which the largest amount of powder may be used to obtain the highest velocity in the slowest twist barrel.

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*Information on the Greenhill formula will be found in a paper "On The Rotation Required For The Stability Of An Elongated Projectile" by Professor A. G. Greenhill, M.A., in Proceedings Royal Artillery Institution, Vols. 10 and 14. This source also gives a table of twists of rifling calculated by Captain J. B. Cundill, R.A., and extended by Mr. A. G. Hadcock, R.A., based on Professor Greenhill's formulas.

6) The Greenhill formula is entirely correct in all cartridges with velocities up to 2,200 feet per second. A slightly slower twist is needed, or acceptable, up to 3,200 feet per second, at which point the formula collapses. A reasonable adaptation, however, of its logic, is to decrease about one turn per inch for each 300 or 400 feet per second of increased velocity over 3,300 feet per second.

In checking the conclusions above, please note that the .270 WCF seems to be a borderline case, and that is why the velocity at which the Greenhill formula is believed to collapse is about 3,100 feet per second. One thing is certain, and that is that several of the handloads delivered much higher velocities than standard factory loads. Note also that the short .300 Improved Capacity Load Grizzly Club, while designed to give .300 H&H ballistics in a case short enough for a Springfield rifle, actually did much better than that in a 14-inch twist. Assuming that by now the strong adherents of the two Dubiel cartridges have become reconciled to the fact that both Dubiel's designs were in the wrong direction, it is rather interesting now, aside from the interest in twist, to present this new cartridge. With 14-inch twist, and the load stated in the tables, the bullet chronographs at 3,200 feet per second on the Owen Chronograph. It just looks like—though we are not trying to do anything here but study barrel twists—the shortened and broadened .300 H&H case is superior to the old fashioned Holland and Holland Magnum cartridge, no matter how you load it and no matter what the twist is.

And you don't need a lengthened action to get those results. Better yet, of course, are the full-length .300 ICL Magnum and the .300 Weatherby Magnum cartridges, as shown in the .30 caliber drop tests (March 1951).

If you are a staunch supporter of factory cartridges, you will find all of the standard twists correct. If you have the chambers improved, so that the case may be reformed to give a velocity much over 3,200 feet per second, you will find that a slower twist will improve trajectory, velocity, and accuracy.

From these twist tests, and from the previously conducted drop tests in .25 and .30 calibers, it again seems to be apparent that it is not out of order to drop in a conclusion about the improved wildcat cartridge, as such.

The tests were conducted because most of the manufacturers of wildcats had no chronographs, no adequately measured rifle ranges, or, in short, no better shooting facilities than the nearest soapbox in the hardware store, where the greatest shooting in the history of exterior ballistics has taken place. But we took these boys by the ears and got them onto a rifle range. That part wasn't easy. Some of the designers, Weatherby, Juenke, and Pfeifer, for instance, couldn't get into shooting form fast enough. Others preferred to let results rest upon their tall tales on the slide rule battlefield, or of how the Catalina goat died when the hunter got off the boat at Avalon.

But we have a conclusion from all this shooting, which again, we think has been strengthened from the new tests: The greatest step in rifle ballistics since the advent of smokeless powder, in the decade following 1940, when the finest and flattest shooting to be recorded up to 500 yards was provided by manufacturers and designers of blown-out and improved cartridges, was made possible only by the development of slower burning powders.

As we shall see in the following detailed account of the individual cartridges in this test, the one powder available that is even slower burning than number 4350 may be the answer and more. It will probably be our next advance in the ballisticians search for speed. And when that greater point is reached, we should deduce from these tests that even slower twists of rifling will be required.

HERE IS WHERE THEY HIT!

Below are the barrel twist test results. All of the cartridges were zeroed at 100 yards and therefore drop at 500 yards is the most important figure shown. Other distances, with group sizes, are given to make each test clear.

Twist (inches, one turn of rifling)	*4350 powder (grains)*	*Drop (in inches)*					*Group Size (in inches)*				
		100 Yds.	*200 Yds.*	*300 Yds.*	*400 Yds.*	*500 Yds.*	*100 Yds.*	*200 Yds.*	*300 Yds*	*400 Yds.*	*500 Yds*
.257-270 ICL Cartridge											
100-grain Lassen Gunshop Bullets (Moffat)											
10	59	0.	-1.0	-7.25	-19.0	-40.5	1.5	2.0	5.50	5.25	10.0
14	59	0.	-0.5	-4.50	-15.0	-30.25	1.2	1.87	3.87	9.25	13.
.270 WCF Cartridge											
130-grain Sierra flatbase bullets											
10	59	0.	-2.25	-8.50		-41.0	2.25	3.50	8.75		22
10	61	0.	-3.00	-11.0	-21.	-45.	2.50	4.75	7.25	9.50	9.5
12	58.5	0.	-2.25	-8.75	-19	-42	1.75	1.75	4.50	6.	4.5
12	59	0.	-2.12	-8.25	-17	-36	2.12	3.12	7.	10.5	17.5
14	57	0.				-53	1.75				7.75
14	58	0.				-48	0.75				7.50
14	59	0.	-2.25	-10.50	-23	-43	2.50	3.50	4.12	4.75	6.25
14	60.5	0.	-0.50	-7.0	-23	-37	1.25	2.75	6.	8.	12.
.30-'06 Springfield Cartridge											
180-grain Sierra Bullets											
10	58.7	0.	-3.25	-13.89	-27	-50	2.06	1.89	7.	5.50	5.25
14	58.7	0.	-4.50	-13	-30	-63.5	1.0	2.50	2.5	4.50	9.
.300 Holland and Holland Magnum											
180-grain Sierra Bullets											
10	67	0.	-2.5	-8.50	-23.	-49.5	1.75	3.50	5.12	7.25	9.25
10	68.5	0.	-0.75	-7.25	-17.5	-38.	1.50	4.75	5.12	6.50	11.50
14	68.5	0.	-2.00	-10.37	-20.75	-42.	1.82	2.89	7.25	6.75	8.
.300 Magnum ICL Grizzly											
180-grain Sierra flatbase bullets											
10	78.	0.	-1.5	-8.	-20.	-43.	1.25	2.5	3.25	6.50	6.25
14	82	0.	-1.62	-7.31	-17.75	-35.25	.317	2.31	3.0	3.5	6.12
.300 Magnum ICL Grizzly Cub											
180-grain Sierra flatbase											
10	69.	0.	-1.75	-8.75	-21.	-44.	1.45	2.50	4.25	4.15	6.25
14	71	0.	-2.5	-4.50	-25	-49.62	1.12	3.37	3.5	5.25	6.5
.25-270 ICL											
100-grain Sierra flatbase											
14	59	0.	-1.25	-7.50	-18.25	-35	.87	1.62	4.62	5.62	9.75
.25-270 ICL											
100-grain Remington Clckt.											
10	58.	0.		-5.		-42.50	1.25		8.25		8.
.270 WCF											
150-grain Sierra Bullet											
8½	55	0.	-1.50	-8.	-25.75	-43.	1.50	2.12	4.75	5.	6.
	4895 (27272) powder (grains)										
10	48.5	0.	-3.5	-9.75		-42	1.37	6.75	5.18		15.
10	49.5	0.	-4.12	-9.5		-45.5	1.37	3.87	8.37		10.
.270 WCF											
110-grain Sierra											
	4895 (27272) powder (grains)										
14	51	0.	-3.	8.5	-26	-44.7	.75	2.5	5.5		11.
12	56	0.	-1.5	-7.5	-16.5	-32.	1.75	1.75	3.25	5.5	9.7
.30-'06 ICL											
150-grain Sierra											
	4064 powder (grains)										
14	60	0.	-2.06	-9.5	24.5	-45.5	1.06	2.5	3.18	4.	3.87
.30-'06 ICL											
180-grain Remington											
	4350 powder (grains)										
10	60	0.	-2.25	-11.	-25.	-47.	1.50	3.3	3.62	6.12	6.
.30-'06 ICL											
180-grain Sierra											
14	61.5	.0	-1.50	-9.25	-21.62	-41.75	2.00	4.12	3.12	4.5	5.5
	4064 powder (grains)										
14	57	0.	-3.12	-12.25	-28.75	-49.25	1.50	4.0	3.87	5.5	8.

Now for a report on the participants:

.25-270 ICL Ram—This cartridge was chosen because recent experiments indicate that it is as accurate as any of the improved .25's and that it comes within two inches at 500 yards of having the flattest trajectory to be recorded at that range in any caliber. Moreover, the cartridge is as well known in the west as the .25-'06 Ackley is in the east, and it is similar. Its shoulder is a bit sharper and it has a little more length. The .25-270 ICL is what the old .25 Niedner would have turned into back in 1914, if the experimenters of those days had the benefit of slower burning powder.

The two rifles chambered for this cartridge were especially made up by the Gun and Rod Shop, Santa Monica, for this test. One was in 10-inch twist, the other in 14-inch twist. Vern Juenke, brother of the manufacturer, made the test with the 10-inch twist, and the author is responsible for the 14-inch twist test. Both barrels are by Pfeifer, both rifles of Mauser design, and the same scope, 20 power, was by Lyman, height above bore identical.

Before leaving the .25-270 I want to quote from Colonel Townsend Whelen's letter to me in reference to a new .25 caliber cartridge which he is still testing:

"During the past year I have been getting far better results than ever before from my purely big-game rifles. One of the reasons is Sierra and Hornaday bullets, another is by using full charges of 4350 powder, and the third is the fine new (postwar) scopes. All groups in .25, .27, and .30 calibers are better than in prewar years . . .

"Take the 13-inch twist of the .25 Culver Krag. Velocities are about 3,000. A 14-inch twist will stabilize a 100-grain bullet even to 500 yards if the bullet is under an inch long, but if the bullet is over the inch it is liable to stagger. That is why I am using the 13-inch twist."

But let us move that velocity up to 3,700 feet per second, as we do in the .25-270. Accuracy, in test rifles, has averaged better than minute of angle to 500 yards. The 117-grain Sierra bullet would not stabilize at all, according to all of the rules of the Greenhill formula, and also all of the shooting of every experimenter whose reports have been printed. But the 117-grain bullet, made with flat base by Sierra, with "4350 Data" powder (see Dope Bag, page 46) furnished by Hodgdon, of Merriam, Kansas, stabilized the bullet to 500 yards when pressures were absolute maximum. All loads with 4350 and 4064 failed. The case holds 64 grains of "4350 Data" powder. Loaded to capacity, which means 64 grains, the 87- and 100-grain bullets gave fine results in a 14-inch twist barrel. With 62 grains and the 117-grain bullet, results were the same to 300 yards as the 100-grain Moffat with 59 grains of 4350.

The fast loads would be useless, and merely evidence of little boys trying to make a big noise, if we were not getting the fine accuracy at longer ranges that we are.

Let us leave the .25 caliber report, now, with the memory that Colonel Whelen, the most conservative in technique of modern shooters, the youngest in point of desire to learn what is new, a man who has placed accuracy rightfully above everything else, at least agrees with the theme of this piece to the extent of playing with us on number 4350 powder and slower barrel twists than the Greenhill formula calls for.

.270 WCF—Here we chose a standard caliber and cartridge, and tests were made with 10-, 12-, and 14-inch twists. Consult your Ideal handbook, Belding and Mull, Phil Sharpe, and you will find that there is little chance on reloading to beat factory ballistics in this case.

Yet if you will tear down a new Winchester .270 Silvertip loading (130 grains) and look at the powder with a magnifying glass you will decide that the powder is either an unlotted version of "4350 Data" or 4350. At any rate there are 55 grains of it, and loads used of lotted Dupont 4350 in these tests were a lot heavier.

Also, Al Barr, of the technical division of the NRA, found that 57 grains of 4350 and the 130-grain bullet gave a pressure of 51,000 pounds per square inch.

The fact that the gentlemen engaged in this test kept going right up with their powder charges means only that they learned their own rifles would stand such loads. Mr. Barr is now experimenting with a .270 shortened to 7 mm. length, but it is target accuracy that is desired, not velocity, and the Greenhill formula will therefore pick the twist for him.

The .270's used were well-made rifles. The 12-inch twist was especially made up by Bob Herzog, the Shasta City gunsmith-shooter who is weaning all of the hunters in Northern California from the .30-30 by winning all of the turkey shoots his wife doesn't win instead. His brother, Paul, did the shooting. The 14-inch twist rifle is a Springfield with a Pfeifer heavy barrel, stocked by Monte Kennedy for John Pierce, who did the testing. The 10-inch twist is Mr. Winchester's best Model 70, tested by Carl Laughlin.

All of these rifles were also tested with the same bullets with faster burning powders, and at longer ranges they failed to produce results worth recording.

The 12-inch twist handled all bullets best, as you can see from the tables. And this was especially true with the 130-grain bullets, the bullet around which the .270 cartridge was designed.

.30-'06 Springfield—These were target-grade rifles especially made for the test. Both shooters, one with a 10-inch twist barrel and the other with a 14-inch twist, feel that their loads were correct and also maximum. The 14-inch twist rifle was a Springfield with Pfeifer barrel belonging to Carl Cramer, the bullet mold manufacturer, and he had the rifle made up for the purpose of testing it only. Jack Henninger, of the Cramer Company, North Hollywood, did the loading and shooting. Henninger is regarded as a handloading authority and he says that's enough powder for this .30-'06.

.300 H&H Magnum—Here again a special rifle had to be made up to test the cartridge in standard design with 14-inch twist. Joe Pfeifer volunteered to produce the gun, and Homer Brown, one of the best-known shooters in the West, did the shooting and loading. The barrel was then re-tested by Jerry Knight in the .30 caliber drop tests, with extremely fine accuracy, when it was converted to the .300 Pfeifer Super Magnum.

The 10-inch twist rifle was made by Adobe Walls Gunshop and tested by Gene Bunstine, and the results also were presented in the .30 caliber drop test story. We now have 10-inch and 14-inch twists to compare with same load, as we have in .30-'06.

.30-'06 ICL, .300 ICL Grizzly, .300 ICL Grizzly Cub—These cartridges are a part of a series designed by Arnold Juenke of Santa Monica, California. The .300 ICL Grizzly is a full-length .300 Magnum case blown out. The .300 ICL Grizzly Cub is the same case shortened to .30-'06 length. All of the improved capacity load cartridges are blown out to have almost straight bodies, 45 degree shoulders, and rather long necks. They are all extremely efficient cartridges, and they range from the .22 Gopher, an improved Hornet, to the improved .375 Magnum, and both chronograph and field test have shown that the improvement is nobody's dream. Roy Weatherby is the only other wildcat manufacturer who has made an effort to test his cartridges both with the chronograph and on the rifle range.

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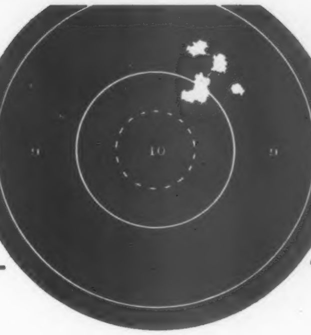
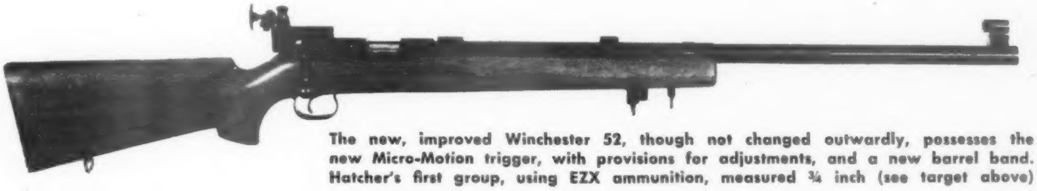
Improved Winchester 52



By Maj. Gen. J. S. Hatcher

At the National Matches of 1919, held at Caldwell, New Jersey, Winchester's Capt. Laudensack, who has long since passed from the scene, made a prediction. Everyone who saw the then-new Springfield .22 bolt-action rifle, I, as Chief Ordnance Officer of the Matches, was proudly showing, was enthusiastic about the gun until "Cap" Laudensack stepped forward and started picking it to pieces. He said, in effect, as I remember it, that the gun was all right as the first effort of a bunch of amateurs in gun design; but that long after it was dead, buried, and forgotten, shooters would be using the new Winchester .22 match rifle that he had designed and was pushing with smallbore shooters.

As I had been largely responsible for prodding the Ordnance Department into getting out a first-class match .22, I didn't particularly like his remarks or his attitude, but I have often since had to admit that his prediction was true. His gun became the well-known Winchester 52, and is going stronger that ever, long after the Springfield .22 has been put gracefully to rest.



The new, improved Winchester 52, though not changed outwardly, possesses the new Micro-Motion trigger, with provisions for adjustments, and a new barrel band. Hatcher's first group, using EZX ammunition, measured ¾ inch (see target above)

The history of the Winchester 52, a rifle made to fill the particular needs of target shooters, has been a long succession of improvements, most of them unobtrusive and unspectacular, but which in the total have added up impressively. Thus, while any and all Winchester 52 rifles have been first-rank target guns, almost any 52 has been an improvement over its predecessor of previous years.

For several years now we have been hearing that really important new improvements were being designed for the 52. On our rather frequent visits to Winchester, we have even been given a look, on a strictly under-the-hat basis, at some of the work that was being done. What we already knew, coupled with a few educated guesses, had us pretty well prepared for what we saw when we got Bill Depperman's release on the new gun on July 26, together with an actual shooting sample of one of these scarce and very much sought-after weapons.

The item that we had heard the most talk about was the new "Micro-Motion" trigger. As far back as three or four years ago we had known that the Winchester designers were hard at work on a new trigger and were determined to spare no effort or expense to make it the best thing of its kind in existence. In this study they drew heavily on information furnished by an application of the science of electronics to the trigger problem. All existing triggers were studied in every way that could be thought of, and everything about them was analyzed. The motions of each part, and particularly the vibrations that were set up on trigger release, were all studied by oscillographs, high-speed photography, and every other means at the disposal of a first-class laboratory, and all motions and resulting shocks and vibrations were carefully recorded and plotted. Based on the trials of numerous experimental designs, improvements were made until several very promising models were completed. These were tested and refined until the engineers were confident that they had something a lot better than anything of the kind ever seen before.

But the designers very wisely concluded that as the mechanism was being designed for target shooters, it would be smart business to let the decision as to which was the best trigger be made by actual match shooters themselves. To carry out this idea, the Winchester designers took the existing Model 52 trigger, the best competitive trigger that could be found, and a number of the best designs that had come out of the laboratory tests, and fitted them into eleven test guns, all of which were arranged to look exactly alike, so that no one could tell which had which trigger, except by reference to a secret code number.

Then a number of well-known match shooters were invited to help the company decide which was the best trigger.

In the first test, the shooters were blindfolded, and could not identify the guns in any way. As the guns were handed to them to test, they might even be handed the same gun several times in succession. With the shooters thus blindfolded, the guns were handed to them in random order for snapping, and they were asked to say which trigger they liked best, based on all the elements of trigger action, such as weight of pull, creep, if any, trigger movement of any kind, vibration or shock, and in general, that indescribable something called trigger feel.

In the second part of the test, the shooters were permitted to shoot the guns on the range and to test them in any way that they pleased.

The results were startling and definite. There was one trigger that showed up as the number one choice with surprising regularity. Needless to say, that was the one that was adopted for incorporation in the new improved Winchester 52, and it is the "Micro-motion" trigger.

The new trigger is a compound-lever affair, in which the ingenious application of a multiplying lever increases an almost imperceptible trigger motion of three to five thousandths of an inch by almost 500 percent to permit the disengagement of the sear without any noticeable motion or vibration. This mechanism really is a "Goldberg".

The new trigger has three adjustments, all of which can be made with a screwdriver. Two of these adjustments are on the outside of the gun, where they are easily reached, but the third is inside, and the gun must be taken down to get at it. There is a reason for this. The first two adjustments, one for trigger pull and the other for overtravel, are non-critical, and can be changed back and forth at the option of the shooter. The third adjustment, for depth of sear engagement, is correctly set at the factory, and under normal conditions should not be changed, hence it is placed where there is no chance of having this adjustment accidentally disturbed.

The weight of trigger pull can be changed from 2½ pounds to 6 pounds, and the overtravel, or trigger motion, can be changed from zero to three hundredths of an inch by adjusting the two screws just forward of the trigger guard. The rear screw, nearest the trigger, is for weight of pull, and the forward one is for over-travel.

The improvement that perhaps ranks next in importance to the "Micro-Motion" trigger is the new bedding system, using a barrel encircling band with tension adjusting screw to hold the barrel to the forearm with a straight downward pull, which eliminates all tendency of the barrel to bind against either side of the stock. Actually, this barrel band is the same that has been used and advocated by Al Barr for several years, and he has found from long experience with it that it does the job better and more simply than anything else he has ever tried. The stock is cut away so that the barrel does not touch the wood at all, but rests on three neoprene pads about five-eighths of an inch square and a tenth of an inch thick. One of these is just forward of the receiver, another is just back of the barrel band, and the third is back of the tang screw. At all other points it is possible to pass a sheet of paper freely between the barrel and the stock.

Another improvement is the fact that the bolt is specially carburized to harden it so that headspace wear will not occur. The hardening of the bolts and receiver bearing points makes it necessary to fit each bolt to its own action, hence the new 52 bolts are not interchangeable.

The bolt tips up to remove, so that there is no interference with the high comb of the stock. To remove the bolt, verify the fact that there is no cartridge in the gun, close the bolt on the empty chamber, pull the trigger, then without raising the bolt handle, push forward on the trigger and hold it forward while the bolt handle is turned up and the bolt is drawn back, tipped up, and removed.

This new gun comes in four styles: standard weight barrel, weighing about 9¾ pounds; heavyweight barrel, about 11 pounds; bullgun, about 12 pounds; and sporting rifle, with 24-inch lightweight barrel, weighing 7 pounds. Various sight combinations may be had, either Lyman, Vaver, or Redfield Olympic.

Our sample was of the heavy-barrel type, with Lyman 77H front sight and Lyman 525 rear sight. The first day we had the rifle we took it to the range and fired it at 100 yards, with both scope and iron sights, and there is no doubt that it is a superb shooting gun. Al's first few shots enabled him to zero in his Lyman Super-Targetspot scope, after which he handed the gun to me. My first group, using EZXS, was ¾ of an inch at 100 yards, with a troublesome mirage. Other groups fired by both Al and myself confirmed this initial indication of superb accuracy.

When I saw that first group, I thought of old "Cap" Laudensack back at Caldwell, in 1919, and smiled. The old man can rest easy. The gun that he started on its way so long ago hasn't let him down.

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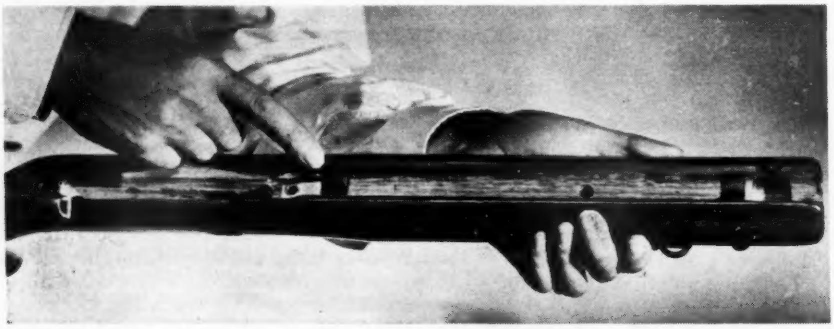
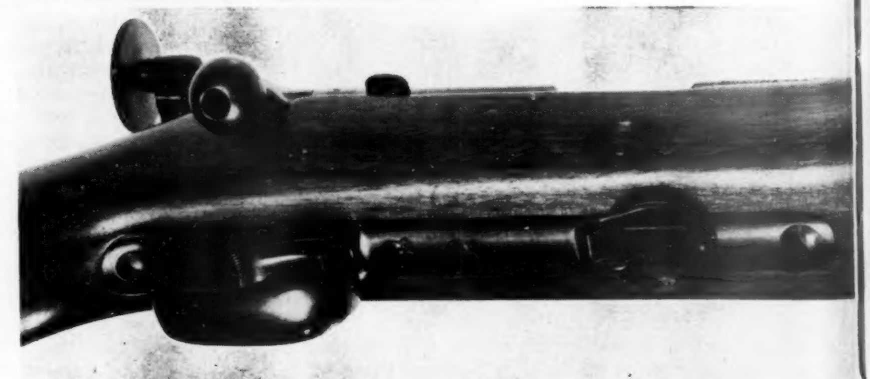


Barrel and action of new Winchester 52 rests on three neoprene pads, which may be seen in photo at left. At other points, a sheet of paper can be passed freely between barrel and stock of the improved model



New Micro-Motion trigger has provisions for adjusting weight of pull and overtravel just forward of the trigger guard

A NEW RIFLE FOR NATO?

(Continued from page 15)

During the period of development on the lightweight rifle and ammunition, production has continued at a fast (particularly since Korea) clip on the M-2 .30 caliber round. Under the huge 8.5 billion foreign aid program for fiscal 1952, manufacturing facilities for production of the Garand and M-2 ammunition will be expanded. Canada will step up production of the M-2 cartridge for the United States.

In 1947, when word of the Army's new lightweight rifle began to seep out of the cracks in the Pentagon, the British pricked up their ears. Shortly after World War II, the British had finally recognized the need for replacing the bolt-action .303 Enfield, and had initiated research and development on a lightweight, automatic rifle of their own. One model was built by the Enfield arsenal, another was built by the Fabrique Nationale Arms Plant in Belgium. Both were of .28 caliber.

Therefore, in 1947, when the British got word of the U. S. lightweight rifle, and after the standardization agreement was signed, they added a little steam to their experimental work in hopes of getting the .28 caliber rifle standardized as the infantry rifle in the three Armies. The U. S. in turn got word of the British rifle, and during the years, 1947 to 1949, a miniature small-arms race got underway between the United States and the United Kingdom. The British did most of the racing, however, because Ordnance had a two-year lead.

Meanwhile, the third member of the standardization pact, Canada, perched far to the North, gazed askance at the goings-on in the small-arms shops of both the U. S. and the United Kingdom. With dogged persistance, Canada, still hopeful of a standardization agreement in small arms, continued to faithfully turn out .303 cartridges for the mother-country's Enfield and M-2 ammunition for herself and the United States, all the while watching with growing concern the developments in the British .28 caliber field and the U. S.'s new, short .30 caliber cartridge.

During the spring and fall of 1950, the U. S. and the United Kingdom (with Canada looking on) held a joint evaluation test of the two lightweight, automatic rifles. The trials were held at Ordnance installations throughout the U. S., but most of the work was done at Fort Benning, Georgia. Under the watchful, but indirect, eye of the three-nation standardization committee, expert riflemen put the British .28 caliber and the U. S. .30 caliber through tough paces.

The results for both nations were disappointing. The British rifle turned out not to be lightweight after all. It weighed almost as much as the Garand (10 pounds with sling). Its striking power was weak; its muzzle velocity was far below acceptable U. S. standards. The penetration effect of the round was inadequate. By M-1 Garand standards, the rate of reliability of the British rifle was not acceptable.

The British ball cartridge in no way met U. S. Ordnance standards. The U. S. does not want a rifle round that will penetrate ten inches of tank armor, but it does want a round with sufficient power to penetrate heavy clothing, and ordinary military vehicle siding. It prefers a round that will have at least some effect against low-flying airplanes. The British cartridge did not even approach those minimum requirements.

The U. S. Savage-length .30 caliber cartridge turned in a credible performance. But its flash and smoke characteristics were no better than the M-2 standard issue round. The T-25 rifle turned in a poor performance compared to that of the Garand, tested under the same conditions. Its rate of reliability, in comparison to the Garand, was poor. Not long after the tests in fact, the original T-25 rifle was modified radically, the new model with conventional stock was brought out for testing.

After the tests, a formal report was drawn up, listing the advantages and disadvantages of each rifle. The report was circulated in the United Kingdom as well as through normal Ordnance channels. It noted the high trajectory rate of the British rifle.

Also noted in the report were the comfort aspects of the British rifle. It is believed that the British misconstrued this report as a policy-level statement, and on the basis of the report, continued further development on the .28 rifle, with the idea in mind that it might be adopted as a standard weapon for the NATO Armies.

However, the comfort aspect of the British rifle was not to be taken at face value. The British rifle was a heavy one. As every rifleman knows, firing light small-caliber round from a heavy gun *can* be comfortable. One could carry this to the extreme of boring a sixteen-inch naval gun to fire a .22 cartridge, which would be comfortable indeed. But the British neglected the target aspect, while they pointed to the comfort aspect. The two aspects taken together were not spectacular. The U. S. was more interested in the result on the target, rather than the relative comfort experienced in firing the rifle.

Despite the fact that it was generally agreed that neither country had produced a rifle that warranted replacing the Garand, the British went back to their work shops in high spirits.

In April 1951, just six months after the Benning Tests, United Kingdom's Minister of Defense Emanual Shinwell stood before Parliament and made an announcement that shocked the Ordnance world. With out so much as a how-do-you-do to the three-nation standardization committee, or without so much as a note of explanation to U. S. Army Ordnance, and without even consulting the military committee of the North Atlantic Treaty Organization, Shinwell declared that the British Army was going to adopt a .28 caliber lightweight automatic rifle.

Though Shinwell's announcement raised an immediate storm in Parliament, and in the British press, it did not create much of a sensation in the U. S. press. Few if any people outside of gun experts and Ordnance personnel realized the significance of the pronouncement. The news was

To iron out new wrinkles in plans for a standard caliber rifle, these men (left to right), U. S. Army Secretary Frank Pace, Jr.; French Defense Minister Jules Moch; British Defense Minister Emmanuel Shinwell, and Canadian Defense Minister Brooke Claxton met in high-level conferences in Washington last month

crowded from the front pages of U. S. papers by the firing of General Douglas MacArthur as Supreme Commander of Far Eastern Forces. But to the few who realized the significance of Shinwell's statement, the news was unbelievable. While Canada looked aghast, and the fight continued in the foreign press, the U. S. public remained oblivious to what was going on.

In Canada, production men and defense personnel who still held feeble hope for a standardization of small-arms went into action. So did Canada's Defense Minister Brooke Claxton.

So struck was Claxton at the seriousness of the standardization breakdown, caused by Shinwell's unprecedented action, that he immediately demanded a conference at Defense Minister level. It was time to create order out of chaos in the small-arms program. Never had a meeting on Defense Minister level been held to discuss standardization problems. Apparently, in military circles, it is still standard practice to hold top-level conferences, when a breakdown occurs on the lower, working level.

It took Claxton three months to arrange the conference. It was handled in a most secretive fashion. The first word most Pentagon officers heard of the impending conference was received via an Associated Press story from Canada, in which Claxton declared that such a meeting was being considered.

When Washington reporters learned of the meeting, and particularly the Pentagon press, they were suspicious. Few of them had been following the rifle battle in the foreign press. When the Press learned that the defense ministers were meeting in Washington for a 'small-arms conference', they immediately and characteristically suspected that the meeting was a 'cover-up' for more important discussions. One radio reporter even alleged that the conference was called not to talk about small arms but to investigate the loyalty of officers under Eisenhower's command. Nothing could have been more far-fetched, but it illustrates the apathetic manner in which the Washington press had neglected the recent important developments in small arms. From a publicity standpoint, the situation was not helped when the British demanded that all proceeding in the meeting be classified 'secret', in order, it was suspected, to hide embarrassing facts about the British .28 caliber automatic rifle.

On August 1, Canada's Claxton, the United Kingdom's Shinwell, and France's Jules Moch, Minister of Defense, with aides and party landed at MATS terminal in Washington. It was a bad week for important conferences. Secretary of Defense George C. Marshall was vacationing in New England. Secretary of the Army Frank Pace was appointed to meet the plane, but the plane was late, and Pace went on to a previous speaking engagement. The distinguished foreign party was met by Under Secretary of the Army Archibald Alexander, still wearing crutches from a recent helicopter crash in Korea. Some Britishers in the crowd considered the U. S.'s failure to meet rank with rank was an 'affront'.

When Shinwell stepped off the airplane, he told a reporter from the *New York Times*: "We have decided ourselves that this is an excellent rifle, and if we have had a chance, we'll go into production." Shinwell, it appeared, was ostensibly in the United States to sell to the United States the British .28 caliber rifle. It seemed incredible, unless, as it was advanced in Washington, Shinwell was entirely engaged in a face-saving mission, and actually had no intentions of selling to the U. S. the British rifle, that had turned in such a poor performance at Fort Benning, less than a year previous. He could go back to the United Kingdom, at least, and say he had tried to sell the U. S. his rifle, which is exactly what he did. Perhaps at some future date he would be in a position to retract his statement about arming the British Army with the .28, purely on the grounds that it did not fit standardization requirements. These at least were some of the informed speculations surrounding the party that arrived at MATS terminal.

Behind closed doors in Marshall's conference room on the third floor of the Pentagon, the meetings got underway. In the long, leather-chaired room, delegates from the four nations huddled in groups, while Secretary of the Army Frank Pace presided. There was an air of urgency in the smoke-filled room.

Canada's Claxton led off. In a short (55 minute), concise speech, he explained that, in effect, Canada was fast finding itself on an uncomfortable fence. Already hard at work manufacturing .303 cartridges for the British Enfield, M-2 cartridges for the U. S. Garand, Canada, Claxton explained, was now faced with manufacturing a .28 caliber cartridge for the new lightweight rifle adopted by the British Army, and was faced, possibly in the future, with manufacturing a new, short cartridge for the United States.

Garand semiautomatic experimental rifle in .276 cal. met U. S. Army requirements in tests made in 1931 and was recommended for adoption in 1932, but Chief of Staff, General Douglas MacArthur, personally disapproved the change in caliber

Claxton made it clear that Canada was taking no sides, but was most desirous of seeking some kind of standardization agreement in the small arms field, between the U. S., the United Kingdom and herself. The production and supply problems were growing daily, he reminded the delegates (who needed no reminding), and he strongly felt that there was an immediate need for action. He reminded the British delegation that when Britain was fighting for her life in 1940, it would have been a much simplier and more efficient supply solution for the U. S. and Canada, had she standardized her weapons with those countries *before* the Nazis broke loose across Europe.

After Claxton, France's Jules Moch took the stand. In a lively but glib delivery, he told the delegates that after the liberation of France, and after the U. S. .30 caliber had proved itself to the French Army, the French, for all practical purposes, had adopted the .30 caliber. In addition, he said, in any standardization changeover, it would be easier for the French to convert the relatively few French 7.5 mm.

manufacturing facilities to .30 caliber, rather than to the British .28 caliber.

And, Moch went on, in view of the fact that the United States was the principal source of supply for France's weapons, France had no other alternative than to side with the U. S. and the .30 caliber. Mr. Moch also took this opportunity to remind the delegates present, by a few caustic remarks, that neither France nor Mr. Moch had been consulted half enough in standardization matters.

Next to talk was Britain's Shinwell, who had surprising if not shocking news for the U. S. delegates. Recounting the historical need for a British automatic rifle, he said that British Ordnance experts had concluded that the .28 caliber was the smallest cartridge that would adequately fit the needs and requirements of the British Army.

Shinwell then told the group that the British had made the decision to proceed with development of the .28 rifle on the basis of the Fort Benning test reports in 1950. The British had the impression, he said, that if the trajectory of the British rifle could be corrected, then the rifle would be acceptable to the United States. Shinwell reported that within the year elapsed since the Fort Benning tests, the trajectory had been corrected satisfactorily, and the British felt that they had a weapon that met U. S. requirements.

Furthermore, Shinwell went on, it would be as feasible for the U. S. to shift to .28 caliber ammunition as it would be for the British to shift to .30 caliber. In conclusion, he said, the British felt most strongly that the .28 should be adopted for issue to the North Atlantic Treaty Army as the standard weapon for infantrymen.

The U. S. delegation, led by Secretary Frank Pace, answered the British contentions with elaborately prepared charts and graphs, which demonstrated the impracticality of standardizing on a .28 caliber:

¶ From the standpoint of economics, it was undesirable.

¶ The parallel production problem of supplying the .28 rifle and the .30 caliber to NATO countries was overwhelming.

¶ Many NATO countries already have a considerable investment in .30 caliber.

¶ The target date for complete arming of NATO countries would necessarily be put off by at least four years if the .28 were adopted.

¶ A U. S. shift to .28 would not, as Shinwell said, be cheaper and more feasible, but on the contrary, more expensive.

¶ Ordnance could never get Congress to appropriate monies for ammunition and a rifle that did not even meet U. S. standards, and especially one that did not even match the quality of the Garand, M-1.

Shinwell and the British delegation did not answer the compelling arguments presented by the United States.

It seems clear now that the United States had no intention whatsoever of shifting to the British .28 caliber. Though Shinwell had made a try at selling the United States, he was licked from the beginning. He must have known that the quality of his product did not meet U. S. standards. In one respect, the U. S. won a round from the British. Shinwell agreed not to go into production on the British rifle.

At the end of the meeting, a joint statement was issued: "It was unanimously agreed that any decision on the adoption of a new round of small-arms ammunition would not affect the immediate situation, and, that, in order to permit the arming of NATO countries as rapidly as possible, the presently accepted standard ammunition and weapons should be continued in production for some time."

But, the statement went on, "At the same time it was unanimously agreed that as early as practicable, a new round of small-arms ammunition should be adopted."

Much to the relief of all present, the subject was not closed altogether. It was referred on to the standardization committee of the North Atlantic Treaty Organization. A complete breakdown in the small-arms standardization program was avoided, at least, but relatively little progress was made toward the ultimate goal: a one-rifle, one-ammunition army. In any event, the British rifle had been stayed off, and it was at least agreed that a new small-arms round would be adopted for the future, after tests and development.

This is the .276 Garand cartridge almost adopted by U. S. in 1932. Subsequent events have proven wisdom of keeping .30 caliber rifles. Japs during World War II changed from .25 to .31 caliber because of inadequate punch of smaller bullet

But, actually, what does it all mean? It means that the so-called small-arms standardization program is no further along than it was in 1947 when the agreement was signed. With one exception: the British .28 cartridge has been, to all intents and purposes, discarded.

Actually U. S. observers left the conference confident that the U. S. cartridge would be adopted at some future date. That leaves the leadership of the standardization program, the adoption of a new round and rifle, in the hands of Army Ordnance. No one in Ordnance, not even unofficially, will predict when the rifle will be in good enough shape to pass Army requirements test. Meantime, we sit, with a good cartridge, waiting.

Will the plodding U. S. Army make up its mind? Perhaps the British bid was a colossal bluff (as it has been advanced in some quarters of the Pentagon) to get Army Ordnance off their duffs. Perhaps by now our Army has been jarred into an unusual and uncomfortable (for them) state: action.

NEXT MONTH—*The report of the first nation-wide survey of the causes of hunting accidents will be made to* Rifleman *readers. It will be based upon information gathered by the NRA with the cooperation of state fish and game agencies. Other articles to appear in October are another in the big-game animal series—on whitetail deer, a discussion of revolver vs. automatic, and the conclusion of* **C. M. Palmer, Jr.**'*s article on wingshooting.*

THE SPOTTING SCOPE -- September 1951

The ban against the use of rifles for deer hunting in the southern part of Michigan has been dropped by the Michigan Conservation Commission. Education of the landowners that the rifle was no more dangerous than the shotgun overcame the opposition expressed a couple of years ago when lifting of the ban was first proposed. . . . The question, "When can I have a gun?" asked by many boys of their parents each year is answered expertly in the sound film "Shooting Safety." Produced as a public service by the Sporting Arms and Ammunition Manufacturers Institute, the 26-minute, full-color picture illustrates a community's volunteer response to one small boy's plea. The film's volunteer effort establishes a basic shooting school in the proceedings and is packed with authoritative advice on all phases of gun handling. Copies of the film (cost $195) are available through Major C. Stewart Comeaux, SAAMI, 343 Lexington Avenue, New York, New York. . . . Charley Hopkins, top conservation expert for Olin Industries, was awarded the first merit award ever presented by the Illinois Conservation Department.

Chief Petty Officer L. M. Rizzolla, USN, became the sixth man in the history of modern pistol competition to top the 2600-point grand aggregate total. He compiled a 2601 in the U. S. Park Police tournament held in Washington, D. C., last month. The others to reach the charmed circle are Harry Reeves, Heulet Benner, Thurman Barrier, James Clark and Earle Farrant. . . . Pvt. William R. Mallner, of the New York National Guard, was named national individual winner of the National Guard Bureau's 1951 Indoor Rifle Matches. National winner of the unit team matches was Company D, 107th Infantry, New York City. . . . A Canadian army Lt., G. S. Boa, won the 1951 King's Medal—the British Commonwealth's highest award for marksmanship—at Bisley tournament. . . . The New York State Rifle Association recently went through a reorganization. Ed Moore, N. Y. "Journal-American" outdoor writer, was elected president, Herman Stollbrink, secretary-executive officer, and Herbert Guckel, treasurer. Brigadier-General Fred M. Waterbury was named honorary president.

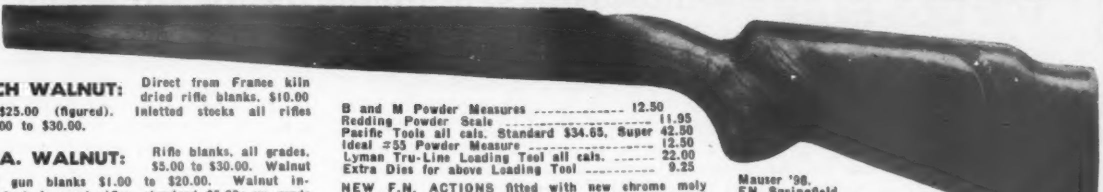
Major Warren P. Davis of the Weapons Section, Ft. Benning, Georgia, has been named captain of an Army team which, rumor has it, plans to compete in all three national matches in California. . . .Jim McCubbin, son of 'Mac' McCubbin of Remington Arms Company, is on duty at Benning and will be a member of that team.

In the fifteen years the NRA has been conducting senior registered tournaments, the figures have jumped from 42 shoots in 1936 to 683 in 1950. This year the number will go well over the 700 mark. . . . Junior and collegiate shooting figures are just as impressive. In 1942 the National Junior Shoulder-to-Shoulder National Championships drew 44 team and 154 individual entries. This year it was 552 teams and 2891 individuals. The colleges as late as 1947 entered only 59 teams and 279 individuals in national intercollegiate championships. In 1951 it was 104 teams and 547 individuals. . . . The NRA is now maintaining records for over 50,000 classified smallbore and pistol shooters. That represents a jump of 9,000 over 1950 and 20,000 over 1949. . . . As in any other sport rifle shooting has its classic alibis. One of the best ever heard concerns a well-known rifle shooter who went out of the center ring for a pair of eights recently. His claim, "a renegade gust of wind had blown the gas out of the bore and changed the pressure."

It is not too late to make reservations for the San Francisco Convention from October 6 to 12. If you are a competitive target shooter, gun collector, experimenter, wildcatter, or hunter you cannot afford to miss the panel discussions and clinics planned for you. They are the best ever.

Paul Cardinal

Pennsylvania Black Walnut Stocks & Blanks



FRENCH WALNUT: Direct from France kiln dried rifle blanks. $10.00 to $25.00 (figured). Inletted stocks all rifles $15.00 to $30.00.

PENNA. WALNUT: Rifle blanks, all grades, $5.00 to $30.00. Walnut shot gun blanks $1.00 to $20.00. Walnut inletted stock, most rifles, standard $5.00; xx grade (butt) $7.00; others $10.00 to $12.00; Burls, $15.00 to $25.00.

OREGON MYRTLE: Rifle blanks, $5.00 to $10.00; Inletted stocks, all rifles, $7.00 to $15.00.

APPLE WOOD: Rifle blanks, $5.00 to $15.00 Shot gun blanks, $2.00 to $8.00 Inletted stocks, all rifles, $7.00 to $15.00.

WILD CHERRY: Rifle blanks, $5.00 to $10.00 Inletted stocks, all rifles $7.00 to $10.00.

LAMINATED STOCKS: Combinations of wood as wanted ½" thicknesses. Turned and inletted, standard gr., $12.00; De Luxe, $16.00.

We turn and inlet your rifle blanks, $5.00 each; 6 or more, $4.00 each—1 week service.

100 Ferlach 98 Mauser Sporting Rifles 270-30.06 cal.

Made at Ferlach, Austria. 24" round barrels 100 yard rear sight, ramp with g.b. Bolt altered for low scope. Walnut stock with full pistol grip and ck piece. Forearm and P.G. checkered. Single trigger plain no engraving $125.00. D.S.T. plain $140.00. D.S.T. with engraved action, drop lever floor plate (hinged) shot gun safety $160.00. Wgt. 7½ pounds with sling.

B and M Powder Measures	12.50
Redding Powder Scale	11.95
Pacific Tools all cals. Standard $34.65, Super	42.50
Ideal #55 Powder Measure	12.50
Lyman Tru-Line Loading Tool all cals.	22.00
Extra Dies for above Loading Tool	9.25

NEW F.N. ACTIONS fitted with new chrome moly (Ackley) sporter barrels 1-10 head spaced test fired, white 257 R. 270 7mm 30.06. $66.00; 220 Swift 22-250 1-14 Twist, white $66.00, or med. heavy barrel (Ackley) 26". $70.00.

IMPORTED FN ACTIONS with blued barrels fitted (Vanadium) ramp sight fitted 250-3000 270 30.06 .257R cal. 24". $71.50.

F.N. .250-3000 engraved actions-barrels $87.50.

BULLETS AVAILABLE

Sierra .22 Hornet, 40-45	$2.25 per 100
Hornady .22 Hornet, 40-45	2.50 per 100
Sierra .22 cal. 55 gr.	2.75 per 100
Hornady .22 H.S., 50-55	2.75 per 100
Sierra .25, 117 gr.	4.00 per 100
Sierra .270, 130 gr.	4.50 per 100
Sierra .30 cal., 150	4.50 per 100
Ackley .270, 129-130 gr.	5.50 per 100
Ackley 7mm. 150 gr.	5.50 per 100
Rem. .30 cal., 1100PE	5.45 per 100

AMMO. SPECIAL

45 C.A. metal case, late date	$4.50 per 100
30.06 metal case, late date	6.50 per 100

(In lots 500 or more, 10% less FOB)

ENFIELD SPECIAL $5.00

ALL NEW PARTS

1 each. Trigger guard with floor plate, catch pin and spring, follower milled bolt with extr. collar, 1 magazine box, 1 firing pin, 1 safety, 1 safety block and screw, 1 mag. spring. 13 Pieces prepaid.

Mauser '98,
FN, Springfield,
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ACE Sheepskin Rifle Cases, 44 to 46" long	$12.00
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V. G. ENFIELD PARTS

	Each	Doz.
Bolts & Extractor Collars	$1.50	$12.00
Firing Pins	.55	4.00
Safes	.75	6.00
Mag Springs (Box of 25)	4.00	2.00
Trigger guards stripped	1.00	8.00
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Milled followers	1.00	8.00
Enfield bolts complete		6.00
Safety block & Screw	$ .50	$ 4.00 doz.
Extractor collars	.30	2.50 doz.
Extractors	1.50	15.00 doz.
Flushed Trigger guard, blued, streamlined with front screws		$3.50 ea.

Colt 45 magazines new	1.50 each
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FTL Stripped Bolts $11.00; complete bolt	19.00
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Just arrived 40 only KRUSCHITZ Mauser 98 Sporting Rifles 30-06 caliber. Made in Vienna by an old established gun maker. Semi-Octagon barrels, Boehler Blitz Steel, solid rib with ramp and rear 100 yard open sight. D.S.T. spoon shaped. Drop "hinged" lever floor plate. Both regular safety and special shot gun safety at grip. Beautifully hand engraved action, matted breech. Floor plate with standing stag, trigger guard Roebuck head. Entire guard profusely engraved, Makers name Martin Kruschitz, Ferlach-Wien engraved on finely matted rib. Monte-Carlo stock, Bavarian cheek piece, black pistol grip cap. Checkered pistol grip and fore-arm, swivels and carrying sling 7½ pounds ....

PRICE
$225.00

NEW GUNS ON HAND FOR IMMEDIATE SHIPMENT

F.N. Sporter rifles, 257, 250-3000, 270, 30-06	$137.50
Sako (Finnish) Sporting Rifles, 222 cal.	119.00
70 Win. standard grade 22 Hornet, 257 R, 30-06, 300 H & H, 375 H & H	126.50
Win. Duck Guns 12-30 "F"	109.65
722 Rem., 222, 257, 300 Sav. cal.	86.55
721 Rem., 300 H & H Magnum	103.90
EG 99 Sav., 250-3000, 300 Cal.	111.50

Ithaca 37, Win. M 12, Rem. 48, Model 870 ADL or AP all gauges in stock.

* Note: Nominal deposit will hold any gun for Hunting Season.

NEW SPRINGFIELD PARTS

	Each	Doz.
NEW Milled followers	$1.00	$8.00
New floor plates	1.00	9.00
Extractors	1.00	8.00
Ejectors with pins	.75	6.00
Firing pins	.80	6.00
Firing pin rods	.80	7.00
Guard bolts, long, doz. $2.00; short doz.		$1.25
Magazine springs, doz.		2.50
Hand guards, NEW $.50 each; 4 for		1.50
dozen		3.50

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Unertl, Texan, Lyman, Echo, Redfield, King, Weaver, Buehler, G&H, Dockendorff, Marble, Pachmayr, Belding & Mull, Mershon, ACE Products, Williams, Sierra, Hornady, Pacific, Redding, C&H Dies.

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LARGE RIFLE PRIMERS

Non-corrosive, non-mercuric. $8.30 per 1000. Must be shipped by express.

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UNERTL Falcon 2¾X, $48.00. Hawk 4X, $52.00. Condor 6X, $66.00. 1" obj. target, $58.00. 1¼" obj., $78.00. 1½" obj., $90.00. 2" obj., $125.00. Varmint 6, 8, 10X $75.00. Ultra-Varmint, $105.00. **WEAVER** K8 and K10, $59.50. K6, $48.50. KV, $57.50. K-4, $45.00. K-2.5, $37.50. J-4, $27.50. J-2.5, $22.50. G-6, $12.50. G-4, $9.75. **LYMAN** Alaskan $65.00. Challenger, $89.50. Jr. Targetspot 6, 8 and 10X, $69.50. Super Targetspot 10, 12, 15 20X, $98.50.

SCOPE MOUNTS. Griffin & Howe, $19.50. Redfield Jr., $12.50 to $19.50. Buehler, $16.50 and $20.00. Tilden, $16.50. Mykrom ¾, ⅞, 1, $14.85. O'Dell's Scope Mount for pistol cases, $4.50.

WILSON SHELL TRIMMER

Compete with 1 shell holder and burring tool, $12.00. Primer pocket reamer, $4.50. Inside neck reamer, $5.50. Cartridge case gauges in following calibers: .220S, .257R, .270 and 30/06, each $4.50. Punch and base sets for removing crimped-in primers (.30 cal. only). $2.00.

IDEAL EQUIPMENT. Shot shell loading sets, 12, 16, 20 ga., $29.50. Star crimpers, $16.50. #310 Tong tools, $11.50. #55 Powder Measures, $12.50. #45 Lubricator and Sizer, $14.50. Full length sizing dies, $3.00. Primer pocket reamers, $2.50. Single cavity molds, $7.50.

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Super, complete for one caliber	$42.50
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JACKETED BULLETS Prices per 100.
SIERRA .224 H.V. 45, 50, 55 gr. Spitzer S.P., $2.75. .224 H.V. 45, 50, 55 gr. Round nose S.P., $2.75. .223 or .224, 40, 45 gr. Hornet S.P., $2.25. .257 cal. (87 gr. H.V., $3.75), (100 gr. H.V., $3.85), 117 gr. H.V., $4.00. .270 cal. (130 gr., $4.50), .30 cal. (125 gr., $4.25), 180 gr. B.T., $4.75. ABC Bullets, .270 and .30 cal. in stock. Same as Sierra prices.

NORMA AMMUNITION

	Per 20
6.5x53 Mannlicher 156 gr. softpoint	$4.60
6.5x55 Mauser 156 gr. softpoint	4.50
6.5x55 Super Match, full patch Spitzer, 139 gr.	4.50
8mm Danish Krag (rimmed) 196 gr. softpoint	4.95
8x57 Mauser, 124, 159 & 196 gr. softpoint	3.75
8x57JR Rimmed Mauser, 196 gr. softpoint	4.95
8x60 Mauser, 196 gr. softpoint	4.95
9mm Luger 116 gr. M.C. (per 50)	4.75
9.3x57 Mauser, 285 gr. softpoint	5.50
9.3x62 Mauser, 285 gr. softpoint	5.50
9.3x72R Rimmed Mauser, 201 gr. softpoint	6.80
9.3x74R Rimmed Mauser, 285 gr. softpoint	6.80

Norma Jacketed Bullets:	Per 100
6.5mm Super Match 130 gr. full metal jacket	$4.95
6.5mm Mannlicher 156 gr. softpoint	4.60
7mm Mauser 156 gr. Spitzer softpoint	4.80
8mm Mauser 159 and 196 gr. softpoint	4.80
9mm Luger 116 gr. S.P.	3.95
9mm Luger 116 gr. M.C.	3.20
9.3mm Mauser 285 gr. softpoint	4.75
30/06 Super Match (full patch) 180 gr. Spitzer boat-tail	5.25
Norma New Primed Cases (BERDAN) (Available in quantities of 20 or more)	
6.5x53 Mannlicher (per 100)	$ 9.50
8x57 JR (per 100)	12.00
9.3x74R (per 100)	14.00
9mm Luger (per 100)	4.95

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Executive Committee Votes to Open Rifle And Pistol Championship to All Members

The 1951 National Matches were 'opened' by the Executive Committee in its meeting of July 28 at Washington, D. C. Any NRA member may enter the National Pistol, Smallbore and High Power National Championship matches regardless of whether or not he fired in an NRA Regional Championship Aggregate. This change applies to both individual and team entries. The entry closing date for the National Smallbore and Pistol matches has been extended so that entries must be mailed to arrive in the NRA office on or before September 3, 1951. All entries made after this date will be considered as 'post entries,' and if accepted, the post entry fee of $15.00 for National Smallbore and $20.00 for National Pistol Championships will be charged.

Places in the National Championship matches will be reserved until September 3 for the present National Smallbore and Pistol champions, trip winners, and the high ten percent of competitors in each Regional Smallbore and Pistol Championship aggregate. After September 3, any of these reservations which have not been requested will be filled (to the capacity of the ranges) on a "first-come, first-served" basis using the date of receipt of the entry in the NRA office as the controlling factor.

The Executive Committee voted to establish a C. B. Lister Trophy honoring the former NRA Executive Director. This trophy is to be awarded annually to the National Individual Gallery Champion. The trophy selected was a coin silver cup which Mr. Lister personally selected about ten years ago, and which has never before been placed in competition.

Other changes in the present NRA competitive program approved were:

(a) Regional Smallbore Championship competitors who fire a 400 score in the Dewar iron sight match in a regional after January 1, 1951 will be eligible to purchase the "400 Club Brassard" formerly won only by those who fired a possible score over this course at the Nationals.

(b) An eleven-bullseye gallery target was adopted as an additional official target, and the necessary rule changes for use of this target were authorized.

(c) Smallbore rule 6-1 was changed to read: "The rifle and its accessories authorized for use under conditions for a match may be supported only by the hands and shoulder of the competitor in the positions prescribed for the match, except as specifically authorized in position rules, and as authorized specifically for each physically handicapped competitor.

Ground cloth or ground pad may be used providing they are not constructed or used in a manner to provide artificial rest or support.

Any other support to the rifle or the competitor's body shall constitute artificial rest or support."

(d) Entry of NRA teams in International Shooting Union and Olympic tournaments was approved with the provision that necessary funds be obtained from sources outside the NRA treasury.

(e) Scores fired in league competition will not be used in future NRA classifications. The league program will be continued with the entry fee five dollars for each team, and a five dollar entry fee to fire in the State and National Championship Shootoff.

(f) A National Gallery Championship will be conducted for the first time during the 1951-52 season. The plans include firing shoulder-to-shoulder sectional gallery tournaments. Thirty sectional rifle and thirty sectional pistol tournaments will be scheduled. The consolidation of scores from these shoulder-to-shoulder sectional tournaments will determine the National gallery rifle and pistol champion.

(g) A National Women's Gallery Postal Rifle and Pistol Match has been approved for the 1951-52 gallery season.

(h) The NRA fee for registering a tournament has been set at one dollar per competitor to be effective with the coming gallery season.

1951 DIRECTOR NOMINATIONS

On July 27, 1951 the NRA Directors Nominating Committee met in Washington to select candidates for election to the Board of Directors at the annual members meeting in San Francisco October 10. The Nominating Committee, representing all parts of the country and all types of shooting interests, consisted of:

Mr. Marvin Driver, (Chairman), Detroit, Michigan
Mr. Carl Kastner (Vice-Chairman), Maplewood, New Jersey
Mr. Harry Black, Des Moines, Iowa
Mr. R. L. Kirk, Portland, Oregon
Mr. George Laurenzo, San Francisco, California
Mr. L. A. Pope, Los Angeles, California
Mr. B. K. Soby, Fergus Falls, Minnesota
Mr. John L. Southcotte, Colorado Springs, Colorado
Mr. C. L. Theed, Coral Gables, Florida
Lt. Col. Walter Walsh, Arlington, Virginia
Mr. Vernon Wood, Zanesville, Ohio

All committee members except Mr. Laurenzo were present at the meeting. The meeting occupied the entire day, during which the committee members reviewed the recommendations received from the membership at large which nominated fifty-two separate individuals for consideration.

The committee's nominees this year number twenty-two. Twenty are for terms expiring in 1954 and two are to fill vacancies on the Board with terms expiring in 1953. The two vacancies were created by the recent passing of Mr. Lister and the appointment of General Edson as Executive Director of the association. The present bylaws name the Executive Director an additional member of the Board of Directors and not one of the elected members.

The nominees for terms expiring in 1954 are:

James Affleck, Pittsburgh, Pennsylvania
Paul D. Andrews, Syracuse, New York

(Continued on page 42)

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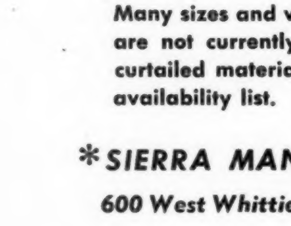

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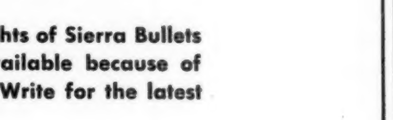

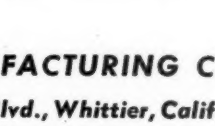

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Thomas R. Barnes, Billings, Montana
C. A. (Smitty) Brown, Tampa, Florida
Harlon B. Carter, West Hyattsville, Maryland
Charles J. Code, Devon, Pennsylvania
W. Owen Keller, Frankfort, Kentucky
Oscar R. Landet, Anaconda, Montana
John R. Lang, Cincinnati, Ohio
Harry D. Linn, Des Moines, Iowa
C. F. Sterbutzel, Connellsville, Penna.
Henry C. Strahan, Poughkeepsie, N. Y.
Colonel James F. Strain, Washington, D. C.
Clarence M. Styer, Seattle, Washington
Lt. Col. Milton C. Taylor, Fort Benning, Georgia
Kinsey J. Voorhees, La Mesa, California
George R. Whittington, Amarillo, Texas
Clarke L. Wilson, Lincoln, Nebraska
Russell I. Wisler, San Francisco, Calif.
Wilbur L. Withrow, Springfield, Illinois

Nominees for terms expiring in 1953 are:
Elmer O. Franzen, Minneapolis, Minnesota
Harvey A. Mutch, Enterprise, Oregon

Each NRA life member may make one nomination in addition to the above. The nominations must be in writing and must be seconded by the signatures of five life members. They must set forth all the information required on the blank furnished for recommending nominees to the committee. Such nominations must be delivered to the association's secretary not less than 48 hours prior to October 10, 2:00 p.m. Directors to fill existing vacancies will be elected at the annual members meeting called for 2:00 p.m. October 10 at the Sir Francis Drake Hotel, San Francisco, California.

Following is a brief biography of the 1951 Committee's nominees:

James Affleck, an active rifle and pistol competitor, is a geophysicist with the Gulf Research and Development Company, a member of the present NRA Board of Directors and vice-chairman of the NRA junior and College Activities Committee. Mr. Affleck is prominent in club and junior promotion work and is a life member of the Rosedale Sportsmen's Association, and now holds office as chairman of the board of this sportsmen's organization.

Paul D. Andrews is an engineer with the General Electric Company, member of the present NRA Board of Directors, president of the Syracuse Rifle Club, executive vice-president of the Onondaga Marksmen, Inc., and has been secretary of the Electronics Gun Club since 1946. He is interested in high-power, smallbore rifle and pistol shooting as well as in firearms legislation and club organization work.

Thomas R. Barnes is a geologist and engineer with the Shell Oil Company. He was a resident of California, president of Stanford Rifle Club during his college student years, secretary of Bakersfield Rifle Club, and executive officer of Yellowstone Rifle Association. Mr. Barnes is a hunter, interested in high-power rifle and smallbore shooting.

C. A. (Smitty) Brown is a member of the NRA Board of Directors and Executive Committee. Mr. Brown is secretary of the Florida State Pistol League, nationally known pistol shooter, and promoter of the

National Mid-Winter Pistol Tournament since it was created. He is interested in all types of shooting.

Harlon B. Carter is chief supervisor of the U. S. Border Patrol of the Immigration and Naturalization Service, is a nationally known pistol and high-power rifle competitor, is actively interested in firearms training, and has written many articles on shooting.

Charles J. Code is an engineer of tests and maintenance of way for the Pennsylvania Railroad Company, a member of the NRA Board of Directors, a member of the Pennsylvania Rifle and Pistol Association, Neville Island Gun Club, Pittsburgh Revolver League, Blair County Game, Fish and Forestry Association, Altoona Rifle and Pistol Club, and organized the Blair County Revolver League in 1946. Mr. Code is an active pistol competitor.

Elmer O. Farnzen is owner of the Bond Tool and Die Company, president of the Minnesota State Revolver Association, and past president of the Minneapolis Rifle Club. He is very active in high-power rifle, smallbore and pistol shooting, and interested in marksmanship training and organization work.

W. Owen Keller is Assistant Attorney General of the State of Kentucky, a member of the NRA Board of Directors, past president of the Frankfort Rifle and Pistol Club, and a member of the League of Kentucky Sportsmen. Mr. Keller is active in firearms legislative work.

Oscar R. Landet is an accountant with the Anaconda Copper Mining Company, a member of the NRA Board of Directors, and past president, treasurer and executive officer of the Anaconda Rifle and Pistol Club. He is an active shooter, club worker and tournament sponsor who travels considerably on club and tournament work.

John R. Lang is a time study engineer for the Buckeye Foundry Company, a smallbore director in the Ohio Rifle and Pistol Association, a member of the Western rifle and Pistol Club and Southwestern Ohio Rifle League. He organized and assisted in the operation of the smallbore match at Camp Perry in 1949 and 1950. Mr. Lang is a smallbore and pistol shooter who is also interested in junior work and marksmanship training.

Harry D. Linn is vice-president of the National Rifle Association and executive-secretary of the Iowa Manufacturers Association. He was formerly Secretary of Agriculture for the State of Iowa. Mr. Linn is now president of the Des Moines Rifle and Revolver Club and the Iowa State Association. He is a smallbore competitive shooter and takes an active part in all phases of NRA work.

Harvey A. Mutch, a retired businessman, is an active smallbore and high-power rifle shooter, a charter member of the Enterprise Rifle and Pistol Club, and was the chief instructor of the club.

C. F. Sterbutzel is an oil and tire distributor and a member of the NRA Board of Directors, is president of the Pennsylvania Rifle and Pistol Association and assisted in its reorganization several years ago. He is a member of the board of directors of the Culle Rod and Gun Club and an active smallbore competitor.

Henry C. Strahan, an active pistol competitor, is employed by the Central Hudson

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117 gr. spitzer SP Boattail	4.00
30 cal.: 125 gr. spitzer SP	4.25
150 gr. spitzer SP	4.50

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25 cal.: 60 gr.—$3.25; 87 gr.	$3.75
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270 cal.: 100 gr. spitzer SP—$4.25; 130 gr. spitzer SP—$4.50; 150 gr. spitzer SP	4.75
7 mm: 130 gr.—$4.50; 145 gr.—$4.50; 160 gr.	4.75
30 cal.: 110 gr. Ptd. SP HV—$4.25; 150 gr. Rd. nose SP, not cannelured—$4.50; 150 gr. flat nose SP, cannelured—$4.50; 150 gr. spitzer SP not cannelured	4.50
180 gr. spitzer SP not cannelured—$4.75; 180 gr. Rd. nose—$4.75; 200 gr. spitzer SP or Rd. nose	4.90
311 cal.: 150 gr. spitzer—$ 4.50; 180 gr. Rd. nose	4.75
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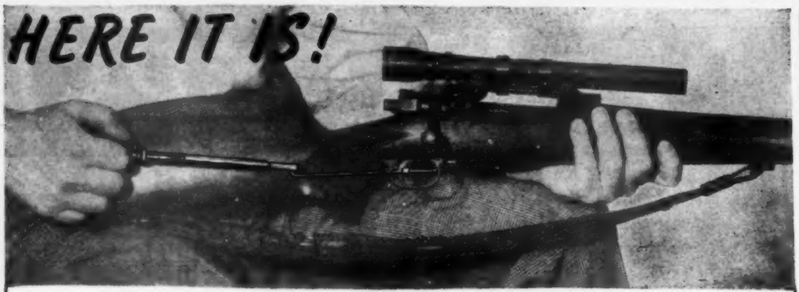

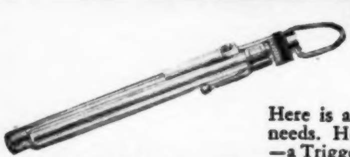

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MEMBERS, DIRECTORS MEET

The annual meeting of the members of the National Rifle Association for the election of Directors and to conduct such other business as may be properly presented, as provided in the Bylaws, will be held in the Sir Francis Drake, San Francisco, California, October 10, 1951, at 2:00 P.M. All NRA members have the privilege of the floor. The right to vote is limited to Life and Endowment Members, Benefactors and Patrons.

The annual meeting of the NRA Board of Directors will be held in the Sir Francis Drake, October 12, 1951, at 9:30 A.M., as provided in the Bylaws of the Association. The purpose of this meeting is the election of officers for the ensuing year, and the consideration of such other business as may properly come before the board.

Gas and Electric Corporation. He has held the offices of president, executive officer, director, and chief instructor in the Duchess County Pistol Association. At the present time he is chairman of the legislative committee of this pistol association. Mr. Strahan is active in his State Association, in helping junior clubs, in the training program, and in senior club work.

Colonel James F. Strain is Director of Civilian Marksmanship and executive officer of the National Board for the Promotion of Rifle Practice. He is a member of the NRA Board of Directors. Colonel Strain was a Camp Perry Instructor for several year prior to World War II.

Clarence M. Styer is division manager for the Pacific Car and Foundry Company. He is a member of the NRA Board of Directors and the Executive Committee, an active high-power and smallbore rifle competitor, and a tournament and club promotor. Mr. Styer is secretary of the Washington State Rifle Association and the Seattle Rifle and Pistol Association.

Lt. Col. Milton C. Taylor is light weapons group chief, Weapons Department, Infantry School, Fort Benning, Georgia. He is an active member of the Fort Benning Rifle and Pistol Club. Col. Taylor was a member of Infantry Pistol Team in 1940 who is interested personally and professionally in all types of shooting and marksmanship training.

Kinsey J. Voorhees is a retired San Diego insurance broker who is a member of the NRA Board of Directors and Executive Committee. He is president of the Associated Gun Clubs of San Diego County and a member of the West Coast Rifle Club and the Los Angeles Rifle and Revolver Club. Mr. Voorhees is a hunter, benchrest shooter, and gun collector.

George R. Whittington is a past president of the Texas State Rifle Association, a member of the NRA Board of Directors and Executive Committee, and chairman of the NRA Smallbore Competitions Committee. He is interested in all types of shooting, shooting promotion, and is a nationally known smallbore competitor.

Clarke L. Wilson is commissioner of Game, Forestation and Parks for the State of

Nebraska. A member of the NRA Board of Directors, he is active in legislative work, firearms safety and training.

Russell I. Wisler is a past president of the California State Rifle and Pistol Association. He is a member of the NRA Board of Directors and Executive Committee, is vice-chairman of the NRA Smallbore Competitions Committee. Mr. Wisler is an active high-power rifle competitor who takes an active part in shooting promotion work.

Wilbur L. Withrow, an active smallbore competitor, is a garage operator and a member of the NRA Board of Directors. Mr. Withrow is a leader in junior and senior club promotion and legislative work in the Middle Western area.

Large Rifle Primers Are Available

Good news for handloaders is the fact that the Federal Cartridge Corporation has just announced that they are now in production on large rifle primers of the non-mercuric, noncorrosive type for sale to handloaders. These primers are the same as those the company is making for the Ordnance Department on Government contract.

During the early years of the war, when .22 caliber ammunition being bought on Government contract from various manufacturers did not show satisfactory storage stability under conditions of humidity and high temperature, the Federal Cartridge Corporation tackled the problem with energy and carried out tests in humidity ovens until they had developed a .22 rimfire priming that showed very superior stability. We have had a considerable amount of admiration for the work done by Federal in this field, and think it most fortunate that they are now making their center-fire primer available to handloaders.

We have been in correspondence with Federal for several months on this subject of primers for reloaders, and Mr. H. C. Russell of that company has furnished us with several samples of their product for our testing. Al Barr has done quite a bit of reloading with the new Federal Number 210 primer, and we have had pressure and velocity tests made comparing this primer with other makes and with Government Frankford Arsenal No. 26 primer having the No. 70 mixture. These tests indicate that the Federal No. 210 primer gives about the same pressure and velocity as the Remington No. 9½ and the FA No. 26, and about 2,000 pounds less pressure and 40 feet less velocity than Western No. 8½, Winchester No. 120, and Winchester No. 115. The charge used for these tests was 60.0 grains of "No. 4350 Data" powder, from Hodgdon, of Merriam, Kansas, with a FA .30 caliber 172-grain boattailed bullet in new Western nickeled cases. The average pressure for the Federal No. 210 primer was 40,220 pounds per square inch, with 2,550 feet per second velocity.

The new Federal No. 210 large rifle primer will be distributed through regular trade channels, and not direct from the manufacturer. For supplies of this new primer, see your regular dealer in shooting supplies.

COMING EVENTS

Tournaments and other important events listed below include all National. Regional and State

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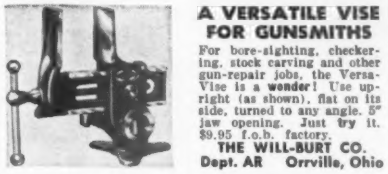
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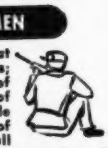

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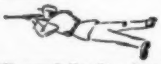

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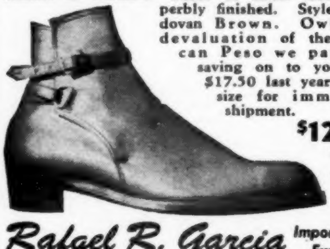

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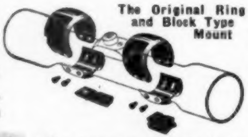

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Championships that have been registered with the NRA. The current Rifle and Pistol Registered Tournament Schedule (available on request) lists all registered tournaments that were reported to NRA Headquarters by March 15, 1951. Only state championships are listed in this column after the publication of the seasonal schedule.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by (Ltd.).

OCTOBER

6-12, 1951—Third Annual NRA Convention at San Francisco, California.

NATIONAL CHAMPIONSHIPS

SEPTEMBER

27-30—High Power Rifle at Camp Matthews, California. Programs available from NRA.

29-Oct. 6, 1951—Pistol and Revolver at Police Department Range, San Francisco, California. Programs available from NRA.

OCTOBER

3-6, 1951—Smallbore Rifle at San Francisco, California. Programs available from NRA.

1951 REGIONAL HIGH POWER RIFLE

SEPTEMBER

1-2-3 CAMP ROBERTS, CALIFORNIA—Mr. D. W. Jackson, Jr., 1350 5th Avenue, San Francisco, California.

1-2-3 PORTLAND, OREGON—R. L. Kirk, 3816 S. E. 33rd Avenue, Portland, Oregon.

9 CAMP RIPLEY, MINNESOTA—Mr. B. K. Soby, Fergus Falls, Minnesota.

STATE CHAMPIONSHIP TOURNAMENTS

SEPTEMBER

1-2 LOUISIANA—Louisiana State Pistol Tournament at Shreveport, Louisiana. Mr. W. A. Gooch, P. O. Box 4248, Shreveport, Louisiana.

1-2-3 OHIO—Camp Perry Pistol Championship Matches at Camp Perry, Ohio. Mr. John R. Lang, 3498 Meadow Avenue, Cincinnati, Ohio.

2 KANSAS — 12th Annual Sunflower State Smallbore Tournament at Topeka, Kansas. Mr. Leo J. Voelker, 423 East 10th Street, Topeka, Kansas.

2-3 MONTANA—Montana State Outdoor Smallbore Championship at Laurel, Montana. Mr. E. S. Shoemaker, 2010 8th Avenue, North, Great Falls, Montana.

2-3 WYOMING—Wyoming .30 Caliber Rifle State Championship at Worland, Wyoming. Mr. Marten Martenson, 1301 Pulliam Ave., Worland, Wyoming.

2-3 LOUISIANA — Louisiana State Smallbore Rifle Matches at New Orleans, Louisiana. Mr. Thomas Hollis, 553 Homestead Avenue, New Orleans, Louisiana.

8-9 MARYLAND—Maryland State .30 Caliber Championship at Randallstown, Maryland. Mr. Wm. D. Blowers, 2711 Overland Ave., Baltimore, Maryland.

8-9 WEST VIRGINIA—14th Annual Mountain State Pistol Tournament at Parkersburg, West Virginia. Mr. Kenneth E. Gilbert, 4 Camden Place, Parkersburg, West Virginia.

8-9 NEW MEXICO—New Mexico State Pistol Championship at Los Alamos, New Mexico. George E. Irwin, P. O. Box 538, Los Alamos, New Mexico.

8-9 MASSACHUSETTS—Massachusetts State Association Pistol Matches, at North Attleboro, Massachusetts. Mr. E. F. Mitchell, Commonwealth Avenue, Attleboro Falls, Mass.

9 IOWA—Iowa State .30 Caliber Tournament at Moscow, Iowa. Ruth Maurer, Wilton Junction, Iowa.

9 NEBRASKA — Nebraska State Smallbore Tournament at Grand Island, Nebraska. Mr. H. H. Buis, 1312 N. 35th Street, Omaha, Nebraska.

9 ILLINOIS—Illinois Pistol State Championship at Highland Park, Illinois. Mr. W. H. Davis, 1306 Nyoda Place, Highland Park, Illinois.

15-16 MISSOURI—Missouri State Smallbore Tournament at Warrensburg, Missouri. Mr. R. H. Dorian, 4020 Blue Ridge Blvd., Kansas City, Missouri.

15-16 NEW MEXICO—New Mexico State .30 Caliber Championship Matches at Ruidoso, New Mexico. Mr. R. W. Hedgecoke, Box 73 Ruidoso, New Mexico.

15-16 MICHIGAN—42nd Annual Michigan State .30 Caliber Rifle Matches at Camp Grayling, Michigan. Mr. Walter C. Franke, 432 E. Lafayette, Detroit 26, Michigan.

15-16 OKLAHOMA—Oklahoma State Big Bore Matches at Claremore, Oklahoma. Mr. William A. Van Atten, 2144 North Louisville, Tulsa, Oklahoma.

16 VERMONT—Center Fire Rifle State Championship at Northfield, Vermont. P. H. Teachout, East Burke, Vermont.

16 UTAH—Utah State Pistol Championship at Salt Lake City, Utah. Mr. Ralph K. Walker, 877 North Main, Nephi, Utah.

16 WASHINGTON—Washington State Championship Pistol Match at South Bend, Washington. Malcolm B. Edwards, P. O. Box 252, South Bend. Washington.

23 ILLINOIS—Illinois State Smallbore Rifle Championship at Libertyville, Illinois. Mrs. Betty Mason, 225 West Park Avenue, Libertyville, Illinois.

23 INDIANA—Indiana State Smallbore Rifle Tournament at Kokomo, Indiana. Mr. Richard P. Gerhard, R. R. #2, Kokomo, Indiana.

29-30 MICHIGAN — Outdoor State Championship Matches at Ionia, Michigan. Maurice E. Ward, 421 Jones Street, Ionia, Michigan.

30 MASSACHUSETTS—Framingham Fall Smallbore Rifle Tournament at Framingham, Massachusetts. Mr. Kent R. Bulfinch, 13 Massasoit Avenue, South Sudbury, Massachusetts.

OCTOBER

6-7 OKLAHOMA—Oklahoma State Smallbore Championship at Tulsa, Oklahoma. Mr. William Van Atten, 2144 North Louisville, Tulsa, Oklahoma.

13-14 GEORGIA—South Atlantic & Georgia State Championship at Savannah, Georgia. Mr. Otis F. Swann, Jr., 211 W. 34th Street, Savannah, Georgia.

20-21 ALABAMA — 12th Annual Alabama State Championship at Mobile, Alabama. Mr. H. W. Passinger, 112 Gilbert Street, Mobile, Alabama.

20-21 OKLAHOMA—Oklahoma State Pistol Championship at Tulsa, Oklahoma. Mr. William A. Van Atten, 2144 North Louisville, Tulsa, Oklahoma.

CHANGES AND CANCELLATIONS

SEPTEMBER

9 IOWA—Annual Mississippi Valley Pistol Tournament at Bettendorf, Iowa. Mr. Gene Taylor, 1219 Davis Street, Davenport, Iowa. (Note: This tournament has been cancelled)

OCTOBER

7 ILLINOIS—Blackhawk Annual Open Tournament at Naperville, Illinois. Mr. W. M. Langefold, 10343 Eberhart Avenue, Chicago, Illinois. (Note: previously scheduled for July 7th and 8th.)

7 ILLINOIS—Annual Fall Harvest Smallbore Rifle Match at Highland Park, Illinois. Mr. W. H. Davis, 1306 Nayoda Place, Highland Park, Illinois. (Note: This tournament has been cancelled).

14 MARYLAND—6th Annual Smallbore Rifle Tournament at Stemmers Run, Maryland. Mr. Emil F. Schulte, 4220 Bayonne Ave., Baltimore, Maryland.

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Sportsman's choice sold world over!

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Available in highly polished tan or back, or with a heavy oil waterproof finish. Corcoran Paratroop Boots come in *All Sizes 4-13½. All Widths AA-EEE.*

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Send coupon today for your pair. Your money back if not thrilled on receiving them.

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In tan ☐ black ☐ or with heavy oil finish ☐.
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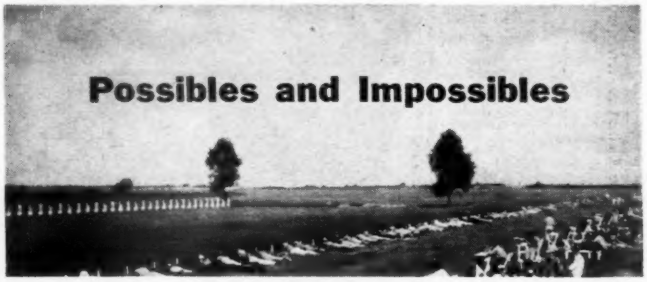
Boot size and width..............................
(Specify size and width of your former GI Army shoe or your most comfortable dress shoe.)
AR-191

A PAPER FOR PEOPLE WHO SHOOT

Rifle

VOL. 14, NO. 9

BRIDGEPORT,



Possibles and Impossibles

The hunter who wants to get the most enjoyment out of his sport will get in some sort of practice during the "off-season" months. Shotgun shooters may try the clay target sports of skeet or trap shooting. Hand traps provide excellent practice too. Rifle and pistol shooters can generally find established ranges on which to practice. Even if these are not near by, the shooter need not discontinue the practice he needs so much.

There is another form of shooting practice which is of great value to the individual and which can be brought into play almost anywhere and any time. This is known as "dry shooting" and merely consists of simulated firing with an empty gun.

The best way to become accustomed to a new gun, or the old one, too, for that matter, is by handling it frequently. If it is a shotgun, raise it to your shoulder and face quickly, align the sights and swing on an imaginary target. Do this as fast as you can, but keep your movements smooth, not jerky. Then after you have pressed the trigger and completed the follow-through swing, check your shooting position. This includes the position of your cheek on the stock, the position of the gun butt on your shoulder and the alignment of the gun barrel. Make the necessary corrections and do the same thing over again. Keep at this until the barrel is instinctively aligned on the object at which you are looking. It is then that you are holding correctly.

Practice this mounting of the gun, swinging and follow-through before a mirror. This will help you to correct your shooting position. It will also allow you to check up on your follow-through, for you MUST remember to keep swinging after you have pressed the trigger. The bird won't stop flying just because you have your gun properly aligned on him. You MUST keep your gun moving with the object at which it is pointed.

The rifleman is probably not so concerned with "feel" as the shotgun shooter. But trigger-squeeze is one of the most important fundamentals of rifle shooting. The top-flight small-bore expert has spent hours cocking his rifle and squeezing off the trigger. He becomes so proficient in this that the actual time of firing comes to him almost unconsciously. In addition to trigger squeeze the beginner should practice shooting triangulations. This method, described in any rifle shooting handbook and known as aiming exercises, is designed to perfect sight alignment.

To the pistol shooter "dry shooting" is all-important. It is the shortest cut to good marksmanship. Many pistol shooters paste a small bulls-eye on a mirror and stand before this, aligning their sights, watching their positions, and squeezing the trigger with great care to be sure that the gun is so held that the falling of the hammer will not disturb the sight alignment. Any slight error can be detected in this manner. Trigger squeeze is the bugaboo of all pistol shooters and the trigger must be squeezed in such a manner that the shooter hardly knows when his gun is going off.

"Dry shooting" includes learning to cock the piece while held at arm's length without disturbing the sight alignment. It takes in timing of your shots for both timed and rapid fire, and acquaints one with the time interval between shots. It allows the shooter to get the "feel" of his gun, to know just where the grip should fit into his hand and just the right spot for his thumb and trigger finger.

So during the "off season" between actual hunts or shooting competitions, handle your gun frequently, whether it be shotgun, rifle or handgun. You'll learn to point it correctly and properly align the sights . . . and then you're on your way to becoming an expert marksman.

"Fieldmaster" "Palma" "Kleanbore" and "Targetmaster" are Reg. U.S. Pat. Off. by Remington Arms Company, Inc.

LARGE BIG BO
TO LEA

Remington Offers 52-page Booklet: "How to Dress, Ship and Cook Wild Game"

The first printing of Remington's booklet "HOW TO DRESS, SHIP AND COOK WILD GAME" was a complete sell-out. Since then, so many hunters have written for copies we've just finished our third printing. It's off the press now—at the same old price, 10¢ (to cover packing and mailing).

In case you haven't seen a copy, the booklet is a colorfully illustrated, pocket-size gold mine of information. It tells you everything to do from the moment you shoot your game until you're ready to dig in for some real eating.

Whether it's a dove or a deer, you'll find instructions for dressing and cooking. There are tips on bringing heavy game out of the woods, and good ideas for preparing trophies for the taxidermist. The shipping information includes a rule-of-thumb guide for estimating the amount of dry ice you'll need, ways of packing and railway express regulations.

The booklet's easy-to-follow recipes are enough to make you reach for your Remington gun right now. Imagine dining on Duck a la Creole, Quail with Mushrooms, Hasenpfeffer, Venison, Caribou Collops or Roast Bear! In all there are 40 delicious wild game dishes and sauces to assure plenty of good eating when you come in from the hunt.

You can get your copy of "HOW TO DRESS, SHIP, AND COOK WILD GAME" by sending ten cents in coin to Remington Arms Company, Inc., Dept. RN, Bridgeport 2, Conn.

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R ton News

WEATHER:
FISHTAIL BREEZES FOLLOWED BY LONG-WINDED ALIBIS

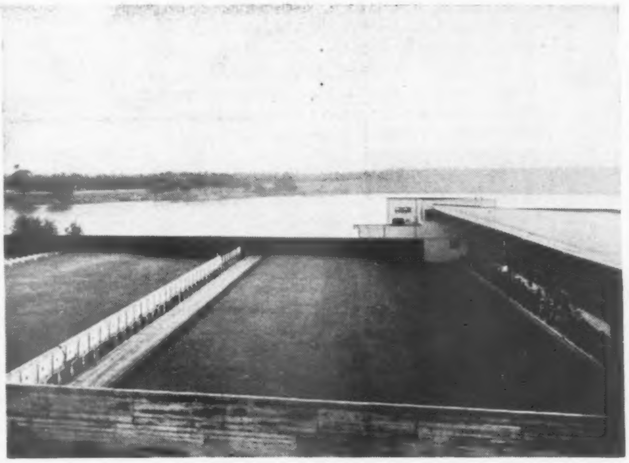
PORT, SEPTEMBER, 1951

First Class Reading Matter for Rifle and Pistol Shooters

O ENTRY REPORTED READY
A FF NATIONALS SEPTEMBER 27TH

RE OP RIFLE AND PISTOL SHOOTERS WILL COMPETE THIS MONTH

TS are bore shooters on the newly con- Municip from the City of San Francisco.



NATIONAL PISTOL CHAMPIONSHIPS will be fired on San Francisco's ultra-modern police range. The 40-target range will accommodate 360 shooters.

Pistol and Smallbore Events to Follow

San Francisco, Sept., 1951. Rifle and pistol shooters will climax their 1951 outdoor season with the National Championship Matches here this month and next. Entry blanks from Regional aggregate competitors have poured in and a near capacity attendance is expected for every division of the shoot.

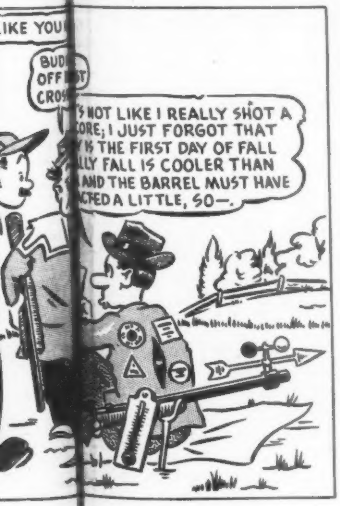
The big bore rifle championship is the first event of the three. This curtain-raiser starts in San Diego Sept. 27 on the Camp Mathews range, made available by the U. S. Marine Corps. It is open to National Rifle Association members, up to the range capacity.

Pistol matches are scheduled from Sept. 29th through Oct. 6th. Scene of action is the San Francisco Police Department Range. The range, completed in 1944, is one of the most beautiful in the country. It is located on the banks of Lake Merced in a five-acre grove of eucalyptus trees.

Final event of the trio is the National Smallbore Championship, beginning Oct. 3rd. Smallbore shooters will use the recently constructed San Francisco Municipal Range in Sharp Park, outside the city.

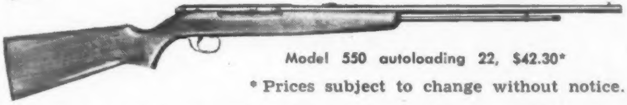
Backing a good many of the top rifle shooters at the Nationals will be the famous Remington Model 37 target rifle and Remington "Palma" "Kleanbore" or "Police Targetmaster" 22 match ammunition. And pistol shooters can rely on the consistently fine performance of Remington's "Targetmaster" wad cutters in 32, 38 and 45 calibers.

UR CL Weather-beaten" Excuse


LIKE YOU
BUD OFF ST CROS
S NOT LIKE I REALLY SHOT A ORE; I JUST FORGOT THAT IS THE FIRST DAY OF FALL LLY FALL IS COOLER THAN AND THE BARREL MUST HAVE CTED A LITTLE, SO—.

FAST SHOOTERS FIND THESE REMINGTON 22 RIFLES TOP VALUE FOR SPEED AND ACCURACY

Model 121 "Fieldmaster" 22 slide action repeater, $57.70*



Model 550 autoloading 22, $42.30*

* Prices subject to change without notice.

A flick of the fore-end and the Remington "Fieldmaster," a slim slide-action repeater, is ready for the next shot. It's one of the two 22 rifles especially designed by Remington for rapid-fire shooting.

With its stock and fore-end of genuine American walnut and its 24-inch round tapered barrel, topped by a white-bead front sight, the "Fieldmaster" is a gun you'll be proud to own as well as to shoot. Its magazine packs 20 short, 15 long or 14 long rifle cartridges for plenty of shooting fun.

If you're an autoloader fan, the Model 550 is the gun for you. Fast as you can sight and squeeze, you can get off 22 shorts, 17 longs, or 15 long rifles. And it's the only 22 autoloader in which you can shoot any combination of them automatically, without adjustment.

To really appreciate these fast-firing rifles, see them at your Remington dealer's. He'll enjoy showing them to you.

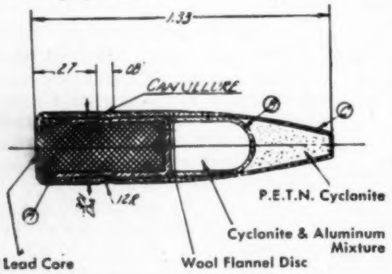
Dope Bag

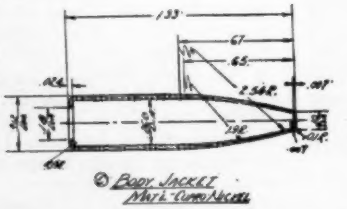
answers by THE RIFLEMAN'S PANEL OF EXPERTS

Julian S. Hatcher • **Al Barr** • **Elmer Keith**
Harold MacFarland • **Phil Sharpe** • **Hugh C. Stith**

EXPLOSIVE AMMUNITION

Several reports have recently reached this office from readers who have acquired supplies of Japanese military ammunition from the recent war. One reader desired to "pull the bullets and reload with heavier powder charges." From his description of the ammunition, he had the very dangerous type of high explosive bullet. In the past month, this same ammunition has been reported for identification by three other readers. *Don't play with it!*





Note this identification—the explosive bullets are found in Jap 7.7 rimmed, semirimmed, and rimless ammunition, and in Jap-made 7.92 Mauser (8 mm. Mauser). Around the primer is a ring or annulus of lacquer ranging from pale orchid to light purple.

Positive identification of the explosive cartridge is in the *design of the bullet*. Instead of the normal point, the bullet has a flat tip about 2 mm. in diameter (approximately ⅛ inch). Watch for that flat tip. If you find any of this ammunition, do not attempt to either pull bullets or fire this ammunition. It is not 'bore safe'—bullets can explode in passing through the barrel. It was intended for use only in machine guns, and is super-sensitive. In official tests at Aberdeen during the war, the bullets would frequently explode on being dropped ten feet on concrete.

The bullet, pictured herewith, contains a quantity of two high explosives—a mixture of PETN and Cyclonite (RDX) and an additional mixture of Cyclonite and powder aluminum. Jamming this bullet in a standard bullet puller could readily fire it. Destroy all such ammunition by dropping it into deep water—**Phil Sharpe.**

HODGDON NUMBER 4350 DATA POWDER

For some time now, B. E. Hodgdon, Merriam, Kans., has been advertising and selling what he calls number "4350 Data" powder at the reasonable price of 75 cents per pound. Frequent inquiries on loading data for this powder has prompted Hodgdon to have some tests made by the H. P. White Company, comparing number 4350 Data powder with 4350 cannister lots of powder. A report by the H. P. White Company, after the test to Mr. Hodgdon sums up the question reasonably well. The report is, "In each instance, your powder gave lower pressure figures and correspondingly lower velocities. In general, the results were extremely consistent and the ammunition performed in an efficient manner.

"The variations in velocity and pressure recordings are normal for these calibers and the standard deviation of velocity indicates consistent results."

Comparative figures were obtained for the .220 Swift, .257 Roberts and .30-'06. The charges used in the Swift was 42 grains with a 55-grain bullet, with average pressure for the Hodgdon powder being 42,150 pounds and 46,240 pounds for cannister number 4350 powder. With 46 grains in the .257 Roberts with 100-grain bullets, the Hodgdon powder gave an average pressure of 34,380 pounds against 43,400 for number 4350. In the .30-'06 with 59.5 grains and 180-grain bullet, the Hodgdon powder gave 40,500 pounds as against 52,360 pounds for number 4350 powder.

Comparative velocity figures show 3535 feet per second for the Hodgdon powder in the .220 Swift against 3663 for the 4350. In the .257 Roberts the comparative figures are 2757 and 3008 feet per second. In the .30-'06 the velocity figures were 2619 feet per second for the Hodgdon powder compared with 2838 feet per second for 4350.

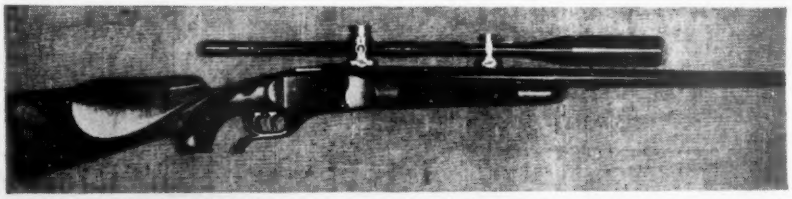
Bob Hutton out in California and a number of other shooters report very excellent performance with 4350 Data powder in large capacity Magnum cases. This powder has given us superb accuracy in several .250 bullguns using the same powder charge and Hollywood powder measure setting as used for the most accurate charges of number 4350 powder. The pet load is 38.0 grains with 100-grain bullets.—Al Barr.

T-53 PRIMER

I have just received through the DCM a shipment of primed cases (F.A. March 1949 T-53 primer), and 50 pounds 4895 powder, Lot No. 21,721. Could you please tell me what this primer is?. It is silvery in color. Also, do you have any dope on this lot of powder for the .30-'06 with 150 and 180-grain bullets? — D. K. Chase, Dorena, Oregon.

Answer by Phil Sharpe: You have had a good break with your DCM order for primed cases. That T-53 primer is the Government's new non-corrosive primer, and I have found that it performs very well.

I regret that I have no data on 4895 lot 21,721. I suggest that you follow the loading data given for other lots, cutting charges about two grains, and working up slowly.



HAUCK FALLING BLOCK SINGLE-SHOT ACTION

At least one modern falling block hammerless single-shot action is being made in limited quantities by Wilbur J. Hauck, Custom Gunsmith, RFD #1, West Arlington, Vermont. Designed to handle any cartridge from the .22 long rifle to the large Magnum, the action is made from chrome Molybdenum steel heat treated to a tensile strength of 160,000 pounds per square inch. Other than the action all parts are made of high grade tool steel with the exception of the cast aluminum fore-end hanger and machinery steel stock bolt. Features are fast lock time, bore axis firing pin travel with retractor spring, hammer retraction before the breechblock moves, and positive extraction on rimmed and rimless cases. The action is designed for use of Mauser type double set triggers. A safety feature of the action is that the breechblock is locked in place when in firing position, and the cartridge head is completely covered by the breechblock. The action which will sell for about $65.00 less set triggers is designed on the outside for eye appeal without sacrificing strength and safety features.

Designer and manufacturer Wilbur J. Hauck, had several single shot rifles built on these actions, at the benchrest matches last year and they made a fine showing.—Al Barr.

KLEiN'S

CHICAGO 6, ILLINOIS

ORDER FOR IMMEDIATE DELIVERY FROM THIS AD UNTIL JANUARY 1952

BROWNING AUTOMATIC SHOTGUNS

Klein's have the biggest selection of New Browning Automatics—12 or 16 Gauges, 5 shot, all barrel lengths and chokes. Please state 2 choices, if possible. All Brownings are hand made and hand engraved in Belgium. Beautiful French Walnut Stock.

Standard 12 and 16 Gauge, without rib...... $119.90
With Hollow Matted Rib.......... $133.00
With Ventilated Rib 141.70
Light 12 and Sweet 16 Ga., without rib.......... 129.85
With Hollow Matted Rib.......... 142.95
With Ventilated Rib 151.65

REMINGTON & SAVAGE AUTOMATICS

Both Remington (illustrated) and Savage Automatic New Shotguns for 1951-52 feature Streamlined Receivers and Light Weight. State choice of 3 or 5 shot, gauge, barrel length and choke (2 choices, please). Every gun is guaranteed by Klein's and by Remington.

Remington Sportsman (3 shot) or 11-48A (5 shot) 12, 16 or 20 Gauge, Plain Barrel....... $115.45
With Ventilated Rib.......... $138.55
Savage 12 or 16 Ga. Auto Model 755, std. wt..... 109.00
Savage 12 or 16 Ga. Auto Model 775 lt. wt..... 115.00

LET'S SWAP GUNS!

Your old gun is valuable. Trade or Sell it! Write today for Klein's generous "Cash-or-Trade" allowance. Enclose 10c for Bargain List of New and Used Gun Values!

ITHACA FEATHERLIGHT REPEATERS

For the shooter who wants the best! And KLEIN'S selection of new Ithaca Repeating Slide-Action Shotguns is the biggest in the U. S.! Famous Model 37 Plain Barrel, 37R Rib Barrel, 37 Skeet and 37 Trap with Ventilated Rib Barrels are all in stock for immediate delivery. Order Yours Early. Only $5.00 will hold the gun of your selection! State 2 choices of barrel length and choke if possible. All 5 shot.

Model 37—12, 16 or 20 Gauge.......... $91.16
Model 37R—$109.31; 37S—$186.46; 37T—$217.55.

REMINGTON 870 SHOTGUNS

The All-New Remington model 870 has attained great popularity with all fine gun lovers. 5 shot. State choice of 12, 16 or 20 Gauge, and barrel length & choke. FREE—3 shell plugs are furnished with all 5-shot Shotguns.

Model 870AP. Plain Barrel.......... $80.80
870ADL....$92.35. With Ventilated Rib......$103.90

WINCHESTER PUMP SHOTGUNS

World Famous Winchester Repeating Shotguns are highly recommended by Klein's. Included are the Model 12 (illustrated), the Model 97 (with outside hammer), the Model 42 (the 410 Gauge version of the M12), and the Model 25 (Hammerless, not take-down)—all brand new. State choice of Gauge, barrel length and choke.

Model 12, plain barrel.......... $98.15
Model 12, rib barrel—$115.45; Model 12 Skeet. .$132.75
Model 12 Trap Rib $137.40; Model 12 Trap Vent. Rib $219.45
Model 12 Heavy Duck $109.65; with Rib...... 127.00
Model 42—410 Gauge $85.45; with Rib........ 104.50
Model 97—12 or 16 Gauge $80.85; Model 25.... 83.95

BROWNING SUPERPOSED SHOTGUNS

New Belgium Browning Over and Under Shotguns are unquestionably the finest in the world, featuring hand workmanship throughout. All models have Selective Single Triggers and Automatic Ejectors. State choice of 12 or 20 Gauge, barrel length and choke combinations. With raised rib barrel $236.00
With Ventilated Rib, Grade 1 ....$261.00
Grade 2—$348.00 Grade 3—$395.00 Grade 4—$520.00

MARLIN OVER-UNDER MODEL 90

For a fine over and under at rock bottom price, buy the new Marlin 90 in 12, 16 or 20 Gauge. $94.45

KESSLER REPEATING SHOTGUN

SALE PRICED!

Thousands of Klein's satisfied customers in 1950 bought, used and liked the New KESSLER Bolt Action Repeating Shotgun. For 1951 the Kessler has been greatly improved with a finer walnut stock, better safety and clip. Even a recoil pad is included. 3 shot, 12, 16 or 20 Ga., 28" full or modified choke at the amazing complete low, low price of.......... $24.95

MOSSBERG REPEATING SHOTGUNS

Mossberg 183D—410 Ga.—3 shot $22.95; 190—16 Ga. with C'Lect choke—3 shot....$31.95
Mossberg 185D—20 Ga.—3 shot $25.95; 185K—20 Ga. with C'Lect choke—3 shot... 29.95

BRAND NEW! 1952—6TH EDITION "GUN DIGEST"

WORLD'S GREATEST GUN BOOK

$10 VALUE Guaranteed to give you $10.00 worth of reading enjoyment or your money back!

All for only $2.00 prepaid

Send $1.00 additional for Buckram-Bound Collectors' Edition, if wanted.

A Few Features:
- Read—and laugh—as Phil Sharpe simplifies Ballistics.
- Over 50 Winchester "Forgotten" cartridges.
- Roger Marsh tells all about "The Weapons of Soviet Russia."
- Jack O'Connor's "Tips on Big Game Shooting."
- Complete 1878 Arms Catalog!

Jam packed with illustrations and exciting articles. Latest prices on all guns. Timely features on foreign firearms. This is your encyclopedia for best gun buys, better hunting and bull's-eye shooting! Order now for immediate delivery. Send $2.00 (no stamps).

★ ★ SCOOP! SPECIAL BARGAIN! ★ ★

ENFIELD DEER RIFLES $29.95

These are genuine Enfield Bolt Action 5 Shot Repeaters, Model 1917-P14, exactly as issued by the Gov't for use in World War II. Popular 303 British Caliber, perfect for all Big Game Hunting! Muzzle velocity is 2160; Energy 2230; 26" Barrel; 46" overall; iron sights. Excellent shooting condition. While only 389 last...... $29.95
Send $5.00 additional if you want the stock modified to Sporter—not shown. Ctgs. are $2.45 per 20 for metal case, $3.85 per 20 for soft point.

FAMOUS 25 CAL. AUTOMATIC SAVE $10

$39.95 Value!

Brand new! Six-shot. Blued finish. Double Safety. Vest pocket size, 4⅞" long overall, height 2½", 2" barrel, weight 9 oz. Made in Italy by the famous Bernardelli Arms Company. Complete with extra clip, cleaning rod, oiler and certificate of proof test. Leave it to Klein's to bring it to you for only.......... $29.95
Ctgs. are $2.95 per 50—Leather Holster is $2.95

RUGER 22 AUTOMATIC

The New 1951 Ruger 22 Automatic is for the shooter who wants the best—and will accept no second choice! 10 shot, 22 Long Rifle caliber, 4¾" barrel, blued, 8¾" overall, weight 36 ounces. Finest material and workmanship.

Standard Ruger 22 Auto.......... $37.50
Mark I Target Ruger, 22 Auto..........$57.50

Accessories for your Ruger
Finest $10.00 Value Hand Carved Holster........$5.95
Extra Ruger Clip Magazine.......... 3.00
22 LR ctgs—per 50 .... 70c

SMITH & WESSON REVOLVERS

Klein's selection of New S&W Revolvers is the most complete in the U.S. Due to continued scarcity, not all models are available at all times, but most models are in stock for immediate delivery. Write for Free S&W "all model circular."

38 Special Military and Police, 2", 4", 5", 6" (illus.).....$62.00
38/44 Heavy Duty 4" and 5....... 70.50
K22 or K38 Combat 4" or 6" Target........ 71.50
38/44 Outdoorsman Target 6½"........ 84.75
45 Target Model 1950 Target 6½"........ 84.75
357 Magnum $110.00; 32 Hand Ejector........ 58.00
38 Terrier $58.00; 38 Chief's Special 60.00

$44.00 up High Standard Automatics

Order your High Standard 22 Automatic Target Pistol from Klein's big stock. Great values include the Sport King 4½" or 6¾" @ $44.00; Field King 4½" or 6¾" @ $59.00; Supermatic 4½" or 6¾" @ $72.00; Olympic 4½" or 6¾" @ $72.00.

I. J. TARGET 22

$22.45

Brand New! Made by famous Iver Johnson. 8 shot, 22 short. Long or Long Rifle caliber cartridges. 6" barrel, blued, walnut grips, only $22.45.

IVER JOHNSON SUPERSHOT SEALED 8

Brand New! Breakopen, 22 caliber, 8 shot. Target Model, 6" barrel. Only $37.75.

H & R 922

$27.25

Brand New! 9 shot, 22 caliber, shoots all lengths of 22 cartridges, regular or high speed. 1951 Model has many new features. State choice 2½", 4" or 6" barrel, blued. Low, low price, only $27.25
Chrome Plated Finish, Only $29.75

SALE! 22 Pistol, Only $14.95

Brand New Condition! Famous Schimel CO₂ Gas Pistol, 22 caliber, powered by CO₂ Cylinder available at all drug stores! Complete with a good big supply of extra CO₂ cylinders and 22 cal. lead pellets. All for only..... $14.95
Every gun is like new! Holster is $3.45 additional.

SALE!

SAVE $4.05

New Marksman 177 Caliber Air Pistol. It looks and feels like a real 45 Automatic! Shoots 177 pellets, darts and BB's. The Marksman is accurate and powerful. Included are 1,000 finest quality 177 caliber pellets, extra darts and BB's. $10.00 Value, only..$5.95

Special Purchase! Ranger 22 Auto. Pistol

$34.95

Brand New! Famous French "Ranger" 22 Long Rifle 12 shot Automatic Pistol. Unconditionally guaranteed. 3¼" barrel, weight 26 oz. Overall length 5¾", height 4⅞". Has thumb safety, streamlined visible hammer, fixed sights, corrugated grips and lanyard loop. Blued finish. Only 200 to sell! Price drastically reduced for this Sale to $34.95

SALE! 9mm Lugers

We are sure these genuine pre-war 9mm Luger 8 shot Automatic Pistols will sell out even faster than the "Lahti's" we recently had. These Lugers are in very good shooting condition and weigh only 31 oz. 3¾" barrel. While 268 last, only $29.95
Send $5.00 extra for special selection. Ctgs. are $4.95 per 50.

COLT GUNS $52.50 up

Klein's complete selection of New Colt Guns include: 22 Match Target Woodsman—$85.00; Target Woodsman — $70.00; Sport Woodsman $70.00; Challenger 22 Auto—$52.50; Officer's Model Target 22 or 38 Special—$75.00; Official Police 22 or 38 Special—$65.00; 32 or 38 Detective Special 2" @ $65.00; 32 or 38 Police Positive @ $65.00; Light or Regular 9mm Luger, 45 or 38 Super Automatic @ $65.00; Conversion unit $40.00.

Finest Blank Pistol $10.95

No permit necessary anywhere! Famous "EM-GEE" German-made blank cartridge pistol. Fully Automatic, 6 shots as fast as you can pull the trigger. Weighs 9 oz., 3¼" long, made from finest carbon steel.
(Blanks are $1.50 per 100, $3.95 per 300.)

GUN NEEDS

12, 16, 20, 28, 410 Gauge Shot Shells, per 25........ $2.20 up
8mm Mauser Soft Point Ctgs., 20 for $3.49
6.5 Mannlicher-Schoenauer Ctgs., 20 for ...$3.95

Send for Bargain List

POLY CHOKES

Authorized Factory Agency. 48-hour service by our own factory-trained Gunsmiths. Klein's gives you all "Poly Choke Extras" offered by The Poly Choke Company or by any other Company, plus faster service! FREE! Write today for free barrel carton & Poly Choke Booklet.

Standard Poly Choke $16.95
Ventilated Poly Choke.........$19.95
(Both prices include installation.)

UNCONDITIONAL MONEY-BACK GUARANTEE

America's Lowest Prices Guaranteed

CASH-CHARGE-BUDGET-TRADE

$250.00 Value! FN MAUSER DE LUXE

Only $27.50 Down. The superb custom built F. N. MAUSER DeLuxe Sporter has no equal at $250.00. Klein's price is only $137.50. Exclusive CHROME VANADIUM steel super-accurate Barrel—Finest French Walnut full cheekpiece Stock—Hand checkered and painstakingly bedded—Low Scope Safety and Bolt—Hooded-ramp front sight and drilled and tapped for receiver sight. Beautifully blued with FN 7 Process vibrant finish. Calibers .30.06, .270, .257, 250/3000, 300/Sav. and 7mm. State caliber. Add $15 (including mounting) for Lyman 48 FN Receiver Sight, if wanted.

Complete rifle $137.50

REMINGTON HI-POWER 721-722

$92.35

Famous New Remington Hi Power Rifles. 5 shot, bolt action. Available in Model 721—30/06 or 270 caliber..$92.35
Model 721—300 H&H Magnum is.....$103.90
Remington 722 is available in 222, 257 or 300 Savage Calibers at $86.55

AMMO FOR YOUR REMINGTON 721-722

20 Ctgs. 30/06..$3.85; 270..$3.85; 300 H&H..$4.80; 222..$2.40; 257R..$3.60; 300 Sav..$3.75.

SAVAGE—WINCHESTER High Powers

$63.45 up

All Savage and Winchester High Power Rifles are available at Klein's. Pay cash, trade, charge, or budget your purchase. Write for credit order blank and trade-in details. Illustrated is the great new SAVAGE 99 lever action 6 shot Rifle, available in 99EG Model in 250/3000 or 300 caliber @ $111.50; Model 99R—$114.50; Model 99RS—$127.00.
New Winchester High Powers available include the great M70 Bolt Action in all calibers—@ $126.50; Super M70 @ $187.70; Model 94 Carbine in 25/35, 30-30 or 32 Special, @ $72.15; Model 43 in 218 Bee, 25/20, 32/20 or 22 Hornet, @ $63.45.

MARLIN HIGH POWERS

All New Marlin High Power Lever Action Rifles are superbly constructed from highest quality workmanship and materials. Klein's selection includes Model 336 Carbine or Sporting Carbine in 30/30 or 32 Special @ $70.95.

Model 336 in 35 Remington caliber..........$ 80.80
Model 336A in 30/30 or 32 Special is.......... 83.95
Model 336A in 35 Remington is.......... 94.45
Model 336 ADL in 30/30 or 32 Spec. is........ 101.05

30/30 ctgs are $3.05 per 20; 32 Spec. $3.15; 35 Rem. ctgs. are $3.45 per 20.

HUSQVARNA HI-POWER RIFLE

Made in Sweden—finest workmanship and Swedish Steel—utmost accuracy is the result! Husqvarna—a famous name in gunmaking since 1689—has produced this great Rifle in your choice of American calibers—30/06, 270 or 220 Swift. Famous FN Mauser action, 23¾" barrel, beautiful checkered stock. Weight 7¾ lbs., overall length 44¾". Drilled and tapped for standard receiver peep sights and standard scope mounts. New low mount safety. With ramp front and open rear sight.......... $125.95

SAVAGE HIGH POWER RIFLES

New Bolt Action Repeating Savage Model 340 (30/30 cal.) Model 342 (22 Hornet) is illustrated above. Both models are priced at only....$49.75
Klein's also made a lucky purchase of a limited quantity of Stevens 325 (30/30 caliber—4 shot) and Stevens 322 (22 Hornet—5 shot) New Bolt Action High Power Rifles. While they last, only $39.95 each. 30/30 ctgs are $3.05

MARLIN 39A and OTHER 22's

The New improved Marlin 39A is the only 22 caliber Lever Action Rifle made. Shoots all 22 ctgs. Only.......... $60.85
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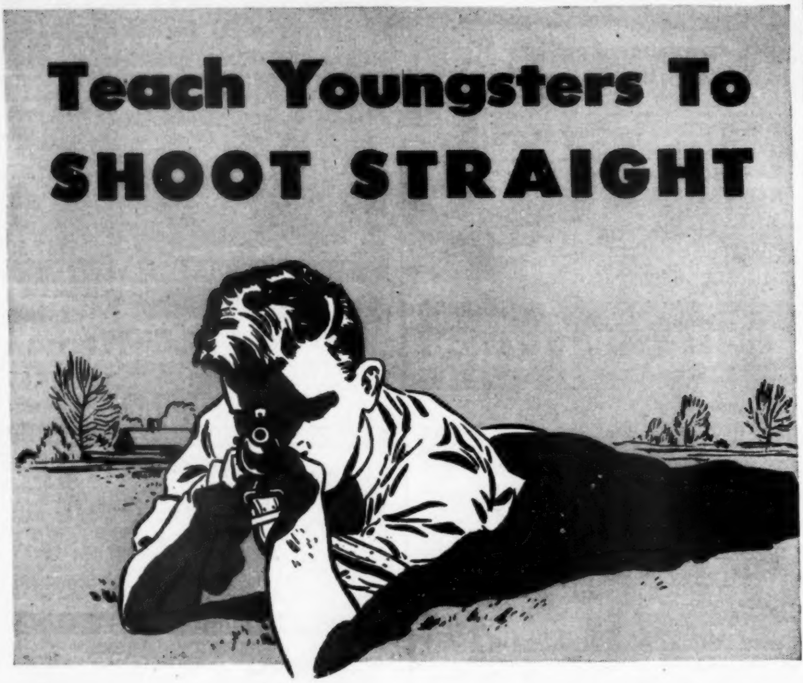

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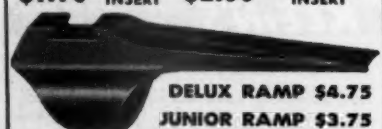

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SOLDERING RIB ON SHOTGUN

Can you give me the name and address of a company which will solder a rib to a double-barrel shotgun?—KELLEY J. HUBBARD, Mascoutha, Ill.

Answer by Harold MacFarland: This work is beyond the facilities of the average gun shop. I would try Kimball Arms Company, Woburn, Massachusetts.

PRIMER POCKET SEAL

I wrote you some time ago about blown primers with my .22 Hornet and you suggested that the trouble might be caused by fine grain powders sifting into the primer pocket and causing excessive pressure within the pocket itself. You suggested that I seal off the primer pocket by seating the primer through a coat of very thin cellophane.

I followed your suggestion and the results have been very good. No more blown primers no matter how hard I settle the powder back against the primers.—CLIFFORD V. WELCH, Clayton, Wash.

Answered by Phil Sharpe: Thanks for your report on performance with the primer pocket sealed with cellophane. The idea works with any caliber where fine grain powders are used.

BRUSH GUN

What in your opinion is the best brush gun for East Pennsylvania deer hunting?—PAUL G. FAUST, Allentown, Penn.

Answer by Al Barr: While the rifle and cartridge I am going to list is not the only fine short-range brush gun, I'll say that it is about as good as any for speed and power. That is the 141 Remington in .35 Remington caliber.

SIGHTING IN THE .30-'06

I would like to know the right distance to sight in a .30-'06 rifle.—E. A. FUNK, Miles City, Mont.

Answer by Elmer Keith: Two hundred yards is the best distance to sight in a .30-'06 for hunting use at a point-blank range, but you can test the gun at 100 yards even easier just to try it out and to sight in as well. It should group about 2¾ inches over the line of sight or point of aim at 100 yards to be sighted in correctly for 200 yards with 150- to 180-grain ammunition.

ETCHING GLASS

Would you please tell me what to use and how to etch glass?—HARRY E. IVES, Everett, Wash.

Answer by Harold MacFarland: Etching glass is a tricky, dangerous business. It is done by melting beeswax and dipping the glass in it so that it is coated with a light film of wax. Then use a sharp scribe to mark in the lines you wish to etch. Then apply hydrofluoric acid to the scribed lines and allow it to remain long enough to etch the glass to the depth you wish. Be careful with that acid though. If you get it on your fingers, it has the quaint quality of eating them right to the bone; and it doesn't wash off readily. As I remember my college chemistry, hydrofluoric acid will etch with clean sharp lines, and hydrofluorous acid will etch with a frosted effect. Ask your druggist, and he may be able to supply the acid.

SALVAGED BRASS

Some time ago I purchased some .30 caliber ammunition from the DCM and on the box label it says this, "Disposal of empty cartridge cases must be made as prescribed by A. R." Can you explain what this means?—RICHARD NICHOL, Milwaukee, Wisc.

Answer by General Hatcher: You don't have to worry about those directions for the disposal of empty cartridge cases. That was put on for the use of the Army on rifle ranges and elsewhere. Army regulations prescribe that empty brass cases must be picked up after target practice and turned in to Government Arsenals as salvage. These empty brass cases are then turned in to the brass companies for credit against new brass purchased by the arsenals, but of course, that does not apply to ammunition purchased by individuals.

JUNK HANDGUN

I have what appears to be a well made Spanish revolver, chambered for the .32-20 cartridge, six-shot and is marked as follows: Top of barrel: "Best American cartridges are those that fit best. The CH revolver pat. 4 May 1881, 12 April 1898, 27 May 1890, 11 June 1900, 26 July 1900, 23 May 1901." Side of barrel: 32 Winchester. Bottom of grip: E 21429 SPAIN. Is it safe to fire this revolver?—JAMES L. ALLEN, Holbrook, Ariz.

Answer by Harold MacFarland: Your Spanish revolver is one of the beautiful pot-metal clunks that was imported into this country some time between 1920 and 1930. Many of these were beautifully finished, and such exact copies of Colts or Smith & Wessons that the parts could be interchanged, but practically every part in them, including the barrels, was cast iron. I saw one fall on a wood floor and the barrel broke in two. Another shot the barrel away on the first cylinder full of shells, and the owner never did find it.

GOOD CHINESE MAUSER

While serving with the 25th Division in Korea, I picked up a Belgian Mauser. I believe it is a copy of the German 98 and would like some information on it if possible. It is a 7.9 mm. in very good condition.

It has a large F.N. on the top of the receiver and on the left side of the receiver is the following data: (FAB. NAT'L ARMES DE GUERRE HERSTAL-BELGIQUE), followed by a proof mark. Is this rifle suitable for rebarreling and converting to a sporter? If so, please advise what popular cartridges it is suitable for. All parts of this rifle are the original ones as they are all clearly stamped with the serial number, and the rifle has a very smooth action.—CPL. RONALD M. MAY, %P.M. San Francisco, Calif.

Answer by Harold MacFarland: You have one of the best of the rifles in use by the Chinese and North Koreans. This is a rather exact copy of the German Mauser and is of good peacetime vintage. It came from the FN plant in Belgium, sometime between the two world wars, and was probably made for the Chinese.

If this weapon is in good condition, with the original bolt in it, I would consider it suitable for rebarreling to .270, .30-'06, .22-250 Varminter, or any similar caliber.

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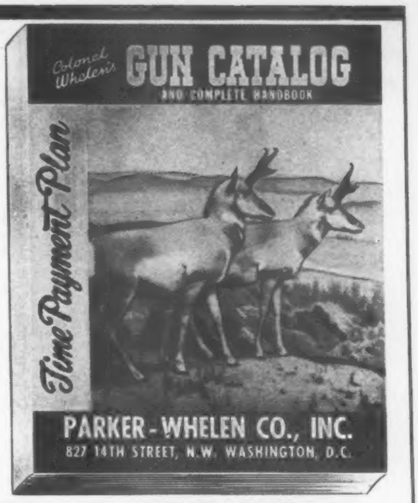
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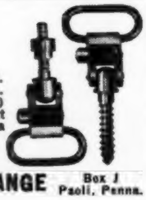

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CLEANER FOR CORROSIVE PRIMER RESIDUE

Seldom does anyone recommend anything but cold or hot water for cleaning rifles after corrosive primers have been fired in them. A new product mentioned in the "New Products" column for July and known as Armasolv produced by the J. A. Gaines Company, 1910 Harris Avenue, Anniston, Alabama, has been given a through test for cleaning barrels after the use of corrosive primers. When rifles are cleaned according to the instructions furnished with Armasolv the corrosive residue is safely removed. The test indicates that when Armasolv is used properly the water cleaning method is not necessary.

Another product which serves the same purpose is Clenzoil, Ellis Christen Lenz, 1228 Woodlawn Avenue, Canton, Ohio. For more than a year now the water cleaning method has been eliminated and we have never had a gun damaged even after using potassium chlorate primers. We do prefer to check or clean the rifle on the second day after use especially when it is to be stored for any length of time.—AL BARR.

FITTING FRONT SIGHTS

Drilling shotgun or rifle barrels for the front sight sometimes is a mean job and lots of bother without a jig. But, if one takes a cork of a size to fit the bore and sticks a good sized needle through it crosswise just outside the end of the barrel leaving a good long section of the needle stick out of one side, it's a simple matter to twist this cork around until it lines up with the line of sight. When the gun is placed on the drill press one has something to line up by.

These corks once made will be usable for a long time.—V. T. LOCKARD, Gladstone, Michigan.

M1 CARBINE MANUFACTURERS

What firms made the M1 carbine for the government during World War II?—HAROLD W. LOCKHART, Lexington, Mass.

Answer by Phil Sharpe: Carbines were manufactured during the war by the Inland Division of General Motors, Dayton, Ohio; Winchester Repeating Arms Company, New Haven, Conn.; Underwood-Elliott-Fisher Company, Hartford, Conn.; National Postal Motor Company, Rochester, N. Y.; Rockola Manufacturing Company, Chicago, Ill.; Quality Hardware, Chicago, Ill.; Standard Production Company, Port Clinton Ohio; International Business Machines, New York, N. Y.; and the Saginaw Steering Gear Division of General Motors in Detroit.

HEAVY FRAME REVOLVERS

Could you define the term "heavy frame revolvers?" Please cite specific examples of light and heavy frame revolvers. Is a Smith & Wesson .38 Special Military and Police, a heavy frame revolver? If not, what is a maximum hunting load for use with it?—LYLE L. HALL, Saginaw, Michigan.

Answer by Phil Sharpe: Heavy frame revolvers are those using a heavier than normal frame. The Smith & Wesson .38 Special Military and Police, and K38, and the .38 Colt Officer's Model are standard frame revolvers. The same caliber on the .44 or .45 frame are heavy frame revolvers. This includes the Shooting Master Colt, and the .38/44 Heavy Duty and .357 Magnum Smith & Wessons. Continued use of heavy loads in standard frame guns results in a "shooting loose" of the crane. The guns do not "blow up". Heavy loads can be used in small quantities without serious damage. Loads driving a 158-grain bullet at about 1,100 feet a second are maximum for standard frame guns.

.257 LOADS

Would you be so kind as to recommend a load for the .257 using the Ackley 90-grain controlled expansion bullet, No. 3031 powder, and the 8½ primer?

I wish to make up some loads which will give me approximately 3,400 feet per second muzzle velocity with pressure not greater than 50,000 pounds, preferably 48,000 pounds. I have in mind 44 grains of 3031 powder but I have no way of checking the pressures, which I believe will run between 50,000 and 53,000 pounds.—MERRILL C. WELLS, Schenectady, N. Y.

Answer by Al Barr: I have used the Ackley controlled expansion bullets in different calibers and, because of the solid base, I found that sometimes I had to reduce the load a grain or two under the maximum used with other conventional bullets of equivalent weight. For example, with an 87-grain Speer bullet and 43 grains of 4064, which is slower burning than No. 3031, I got 3390 feet per second velocity at 50,300 pounds pressure. Judging by that I am reasonably sure that 44 grains of No. 3031 would be an excessive load with the 90-grain Ackley bullet. An equivalent load of No. 3031 would be 41 grains, and that would probably be maximum. I would suggest that you start with a load of about 40 grains of 3031 and work up.

.45-70 MAUSER

I am going to have a single shot .45-70 built up and would like to know if a Mauser 98 action could be altered to handle the large rim case.

If that is not possible, how about a Martini action? Would it be strong enough for those heavy loads recommended by Keith?

Also what rate of twist would you recommend using the 405- and 500-grain lead slugs at around 1,400 feet per second with an occasional 405-grain jacketed slug using Keith's load. I intend to shoot at around 100 yards, with 200 yards as maximum range.—P. O. FOSBERG, Kodiak, Alaska.

Answer by Harold MacFarland: There is no good reason why you can not install a .45-70 barrel on a Mauser '98 action. I just fitted one to a 1903 Springfield. The deal is very similar, but is easier on the Mauser. The bolt must be faced out. Grip the handle end of the bolt in the lathe chuck, and support the opposite end in a steady rest, then with a very hard lathe tool, face out the bolt large enough and enough deeper to freely accept the rim of the .45-70 case, I would cut off the little projection on the left face of the bolt. You don't need it, and it just complicates matters. Then, in fitting the barrel, allow it to extend back through the receiver stop ring until it contacts the bolt face. The extractor must be cut back and given a longer bevel if it is

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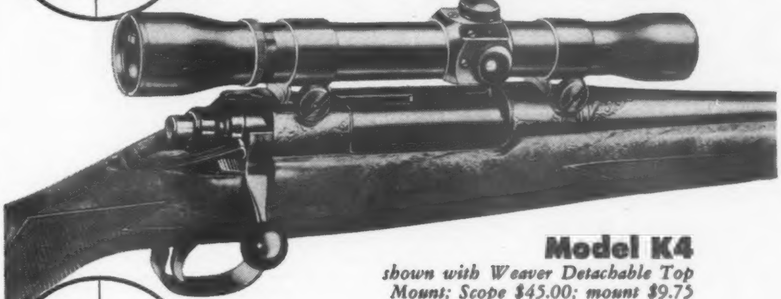

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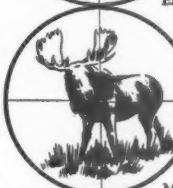

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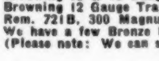

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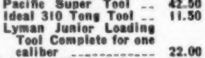

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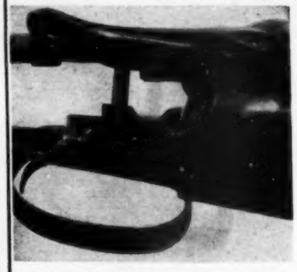

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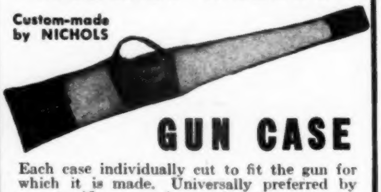

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to function on the large rim. The shape and size of the extractor hook is very critical, and it must be highly polished if it is to work, but it can be done. The conversion also requires milling an extractor cut in the barrel somewhat similar to that on a Springfield, or Enfield, and the firing pin must be shortened to a protrusion of about .055-inch. The rimmed shell will not, of course, work or feed from a Mauser type magazine, but I have the impression you wish to use this rifle as a single shot.

The large Martini as made for the .303 British would work also. I would suggest a twist of one turn in 20 inches for your barrel.

ERFURT LUGERS

I have two Lugers which are marked as being made by Erfurt. Are Erfurt made Lugers good and how do they compare with Lugers made by other factories?—Julian S. Kipnis, Tucson, Arizona.

Answer by Harold MacFarland: The good old original Luger was made by DWM in Germany, and it is so branded. Later, the Mauser Werke took over the Luger plant and later ones are branded Mauser. Therefore, the better Lugers are branded DWM or Mauser Werke.

The Erfurt Arsenal is nominally a rifle plant. During the first World War, they, like the typewriter plants in this country, made pistols. Consequently, along about 1916, many Lugers were branded "Erfurt".

Some of these Erfurts functioned quite well, others did not. First, I would go over those pistols and ascertain that the serial numbers on principal parts all match. Mismatched parts will often cause jamming. Then, as with any war-time gun, you may have malfunctions due to careless fitting. Try the pistols out. If they are accurate, and will repeat without jamming, then you have good Lugers.

Many Lugers will refuse to operate full cycle with American made ammo. It is loaded lighter in this country. On such guns, it often is necessary to cut two or three turns from the recoil spring before they will function.

STANDARD AUTOMATIC RIFLE

I have a rifle which seems to be a pump action, but looks as if it may have been a gas operated semiautomatic. It was manufactured by Standard Arms Company, Wilmington, Delaware, and is chambered for a .35 caliber cartridge. Can you identify it? —Walter Jones, Philadelphia, Penna.

Answer by Phil Sharpe: The Standard rifle was both a gas operated semiautomatic and a pump gun. It was designed as a semiauto, with the pump feature built in, so if the semiauto part didn't work, you could function it by hand. But there was also a selector gadget on it to enable the shooter to take his choice.

These guns were made by the Standard Arms Company of Wilmington, Delaware, first appearing about 1909. They were made for not over three years as they did not prove popular. Calibers were .25 Remington, .30 Remington and .35 Remington.

There was a less expensive model which lacked the gas operated feature. It was a true pump action. The gas operated model sold for $37.50 and the slide model for $30.

LOADS FOR .38-56

Can you give me information on a load for the .38-56? I have new formed cases and some excellent Krause hollow-point gas-check bullets of 247 grains weight. The only loads listed in Sharpe's and in some old Ideal Handbooks use powders of aged vintage. I want a good hunting load with some of the modern powders.—Gene Lechner, Milwaukee, Wisconsin.

Answer by Elmer Keith: You can use around 23 grains of 4759, 20 grains of Hercules 2400, 30 grains of HiVel No. 2, or about 32 grains of 3031 with the 247-grain bullet. The best load will have to be found by experiment. In the '86 Winchester you may be able to go a grain or two over the loads recommended, but they will do for a start.

STOCK COMB HEIGHT

When using a scope sight is it better to have a regular stock or a high comb? Is it practical to have both scope and iron sights on a rifle at the same time?—Delmer H. Compton, Bagley, Iowa.

Answer by Al Barr: The closer you can place your face to the comb of a rifle stock, the steadier it will be for shooting. A compromise is necessary when using a scope mounted higher than the iron sights. I would prefer as high a comb as I could use with the iron sights and still use them with a scope sight.

9 x 57 MM. MANNLICHER SCHOENAUER

I have a Mannlicher Schoenauer type rifle marked 'Oesterr Waffenfabr - Ges. Steyr.' It has an 18-inch barrel, rotary magazine, and double set triggers. I'm certain it is 9 mm. caliber, but I'm not sure about the case length. Would it be 9 x 56 mm. or 9 x 57 mm.?

Please recommend a good bear and deer reload for this cartridge.—Wallace Eubank, Concord, North Carolina.

Answer by Elmer Keith: You have a 9 x 57 mm. Mannlicher Schoenauer, a very fine little timber rifle and cartridge. The 280-grain soft-point is by far the best load for it. Use 43 grains of 3031 powder with the 280-grain bullet for 2,010 feet per second, or 45 grains of 4064 powder with the 280-grain bullet for 2,035 feet per second. Both are fine loads. I have two of these little rifles one an 8 x 56 and the other a 6.5 x 54. I like them both and they are deadly little devils. Have seen a lot of game killed with them in all calibers and found the 9 mm. the most accurate one I ever tested.

MAXIMUM .348 WINCHESTER LOAD

Is it possible to step up the velocity of my .348 Winchester without endangering the action of the rifle? I would like to be able to push a 250-grain bullet at somewhere near 2,500 feet a second at about fifty yards. The rifle is new and in very good condition.

Is it possible to get bronze tipped bullets for the .348 in the 250-grain bullet?—Richard J. Astrup, Seattle, Washington.

Answer by Al Barr: The maximum permissible pressure, according to the factories, for the .348 is 44,000 pounds. If you will refer to the pressure and velocity data we gave on the .348 in the November

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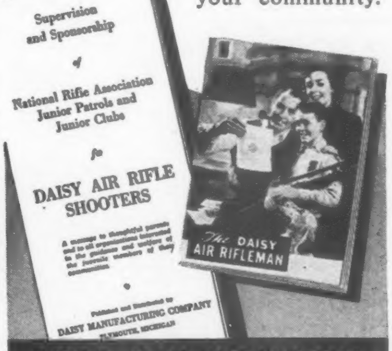
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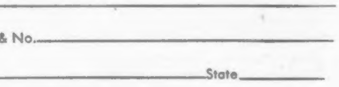

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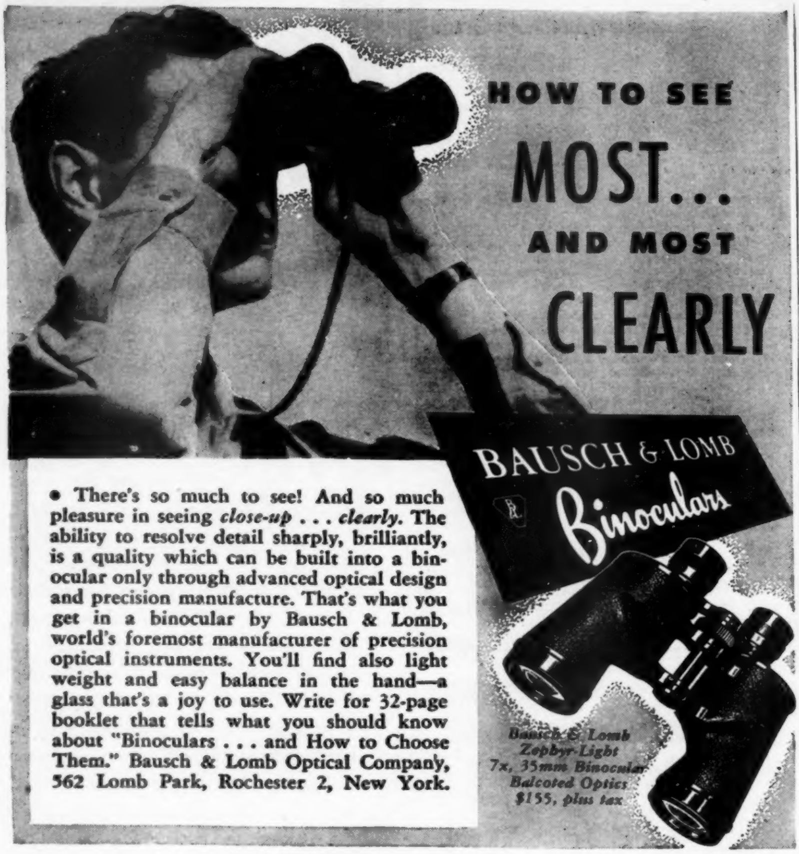

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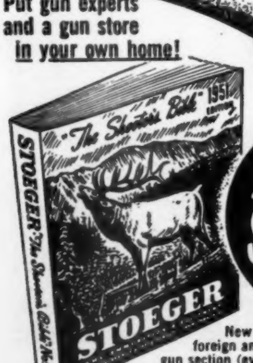
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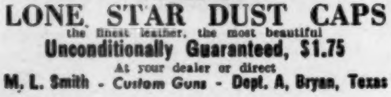

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1949 RIFLEMAN, page 25, you will find that with a 250-grain bullet we obtained only 2,261 feet a second at nearly 45,000 pounds pressure, which is absolutely maximum as far as we are concerned. The load was 49 grains of 4895 powder. Another load was 50 grains of 4064 powder, which gave 2,270 feet a second at 42,680 pounds pressure. That is just about maximum. If you wish to go higher you'll have to do so on your own.

I'm not familiar with any bronze-tipped bullets for the .348 Winchester cartridge. Due to the scarcity of copper alloy material, you'll probably be lucky to get any .348 bullets of any make before too long.

LOAD FOR .40-82

Information is requested as to proper load for Winchester .40-82. I have an 1886 model in excellent shape and of course, must of necessity reload if I am to do any shooting.

In addition to commercial powder, have a quantity of 4895, lot 2192, that has given excellent performance in .30-'06 and .219 Wasp.—LT. COL. C. C. WILLIAMS, Concord, California.

Answer by Elmer Keith: You can use the 260-grain jacketed or cast bullet, preferably with gas-check with a charge of 37 grains of duPont 3031 powder giving around 1,500 feet per second. The charge can be increased to 45 grains of the same powder giving around 1,800 feet per second. These are about the best in smokeless loads, and you can, of course, use 82 grains of F. G. blackpowder poured through a long funnel.

Your soft steel barrel will not last too long with the metal patched smokeless loads however. You could start a grain or two low and use 4895 powder. 4895 powder usually is a bit slower than 3031 powder, or the still older 17½, which it replaced.

LEVER ACTION .22 HORNET

Is it possible to convert a Winchester Model 92, caliber .25-20 lever action rifle to a .22 Hornet? I have a rifle of the above description with a very badly pitted bore but the action is in very good condition. I have always wanted a .22 Hornet lever action rifle and this seems to be a good way to obtain one. I intend to have a brand new barrel made for the Hornet and fitted to this action. Is the action strong enough?

If the above is not feasible, what lever action rifle would be suitable for conversion to a .22 Hornet?—RICHARD K. PEELLE, Richmond, Indiana.

Answer by Harold MacFarland: The Model 92 Winchester action will hold a Hornet cartridge safely, but it will not feed them through the action; nor will any other lever action rifle feed the .22 Hornet cartridge. The shell case is too small.

The Winchester Model 92 has been successfully rebarreled to use the .218 Bee cartridge, which will feed very well. It is absolutely essential that the firing pin hole in the breech block be made smaller for any load such as the Bee. This is usually done by welding the original hole shut and redrilling, for there is insufficient steel in the web of the block to bush it. The firing pin is then ground down to fit the new smaller hole. The hole diameter should be not larger than .075-inch.

The gripe against such a conversion is that you are rebarreling to a varmint caliber, the chief value of which should be pinpoint accuracy on tiny varmints at fairly long range. Most lever action rifles are not very accurate. The design is just too springy, and they can't be stocked up for accuracy, so your purpose is defeated before you start. You would be much better off with a good bolt action for any of the varmint calibers, such as Hornet, Bee, or the 222.

MAGNUM ON SPRINGFIELD ACTION

Would it be safe to rebarrel a Springfield, serial number 950000 series, made at Springfield Armory to .300 Magnum? Would the magazine have to be altered?—Jack R. Armstrong, Cheyenne, Wyoming.

Answer by Harold MacFarland: Your Springfield belongs to what is known as the double heat treat series. This is one of the smoothest working of the Springfields, and a very fine action for rebarreling to such calibers as .270. I wouldn't recommend any but the later nickel steel actions for conversion to .300 Magnum.

The actual thrust of the larger cartridge is so little greater that you needn't worry on that score; the difficulty is that the magazine has to be lengthened so much that the receiver is pretty well skeletonized, and most of the strength is cut away.

If you want to build a Magnum on a military action, use the Enfield. This was originally built as a Magnum action, and it will even handle a .375 Magnum very nicely.

POWDER IDENTIFICATION

I handloaded twenty .257 Roberts cases (Western) with 41 grains of 4064 powder and used a Remington 722 Standard rifle. These cases were not handloaded before, one case cracked near base of case and also mashed the primer almost flat. I noticed in the June American Rifleman on .257 varmint loads, Phil Sharpe mentions that he loaded 44 grains of 4064 powder, therefore I discarded the powder problem because I measured each load with a Redding powder scale. However, I am sending the case and hope that you will be able to help me with this trouble.—Charles F. Clayton, Los Angeles, Calif.

Answer by Phil Sharpe: You see now why the powder companies stopped recommending loading data. In two of my .257 rifles, the loads I gave were perfectly OK, with no sticking, extraction troubles, flattened primers, leaks, or what have you. What then caused your trouble?

First of all, the sample case shows that it must have stood about 70,000 pounds pressure.

Recently, a chap brought in a Springfield most thoroughly blown apart with "a light load of 40 grains of 3031." He brought some of his ammunition and we pulled it. He had 40 grains of what appeared to be Bullseye. Then we checked. Many gunsmiths buy powder in 25 and 50 pound drums—much cheaper. I get mine that way. They gather used cannisters, fill them, stick on a gummed label, put them on the shelf. Gummed labels will not stick to those varnish-finish cannister labels. The temporary label falls off, he gets mixed up, gives out the wrong powder.

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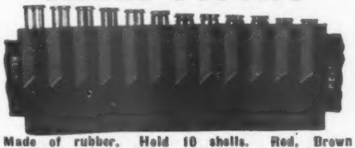

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Per 100 cartridges made in France. Factory loaded with 160 grain Metal Point bullet. Also have some with 150 grain Soft Nose hunting bullet replacing the G.I. bullet at $18.00 per hundred; 5 shot cartridge clips 50¢ each.

7.65 m/m BELGIAN MAUSER $12.00

Per hundred cartridges. Made in Belgium, factory loaded with Round or Pointed Metal Jacket bullet.

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While rifles differ, very definitely 41 grains of 4064 should be safe in any .257 with *either* the 87-grain or 100-grain bullet. The answer just has to be that you *do not have* 4064 *powder*. I do not know what you have, and powder cannot be visually identified. There are no simple tests for identification. Somewhere, somehow, you obtained the wrong powder.

Cannister powders come with a special paper seal on the pour top. Do not accept powder if the seal is broken.

BERETTA SAFETY

When the safety of a .22 Model 948 Beretta is on, is the hammer blocked as well as the trigger mechanism?—G. H. Spaulding, Lansing, Mich.

Answer by Al Barr: The safety on the Beretta Model 948 locks the trigger only. That is an important point, but this particular model cannot be criticized more than many others, which have been in use for many years.

ARMINIUS REVOLVER

I have a German Zella-Mehlis, five shot, .320 caliber revolver for which I am unable to find proper ammunition. I have already consulted one foreign ammunition dealer without success. Is ammunition available, and if not, would you recommend having the chamber rebored?—Thomas R. Lane, Jr., Memphis, Tenn.

Answer by Harold MacFarland: You can buy American made ammunition for your German Arminius revolver. For all practical purposes, our .32 Short Colt cartridge is identical with the European .320 C. F. Some of these revolvers have long enough cylinders to use the .32 Long Colt. Either of these is a bit smaller in diameter than the .32 S&W., but the Colt's cartridge is available, and if your regular sporting goods dealer doesn't stock it, he can easily get it for you.

CASE NECK THICKNESS

I form cases for a .22 caliber wildcat from shortened .30 caliber brass. Neck thickness is established by reaming out the neck with a ¼-inch reamer while the case is in the third forming die. The die is chucked in a lathe and the reamer in the tail stock is run in. A neck anneal and two more necking operations complete the process.

The neck of the chamber measures .2608-inch diameter. My case neck thickness runs .0170-inch to .0164-inch. This gives .0014-inch to .0020-inch clearance between case neck and chamber.

My cases are difficult to resize during reloading and to correct this I would like to use an 'outside neck reamer' to reduce neck thickness somewhat. What neck thickness do you recommend for a .22 caliber cartridge and what chamber clearances are allowable when fine accuracy is not to be sacrificed?—Glenn E. Thorn, Lawrenceburg, Ind.

Answer by Phil Sharpe: I am not certain that there is any 'ideal' thickness for a cartridge case neck. It should, however, be of uniform thickness, and better than using micrometers, try a case fired in your chamber. If the bullet will just slip into the neck without undue looseness, yet permit easy removal, it is just about right.

Your method of reaming case necks is not conducive to the accuracy you desire. Back before the .220 Swift came out, Winchester supplied me with sample experimental cases, chamber drawings, etc. J. B. Sweany built me a rifle on a new Springfield action using a heavy Winchester barrel blank. He also built handloading tools for me. The case is forced into a die which barely reduces it. Then a hand neck reamer with an extended pilot fitting the front of the die is inserted and the necks reamed. This produces neck walls of uniform thickness. Then the case is pushed from the die and is ready to load—no expander is used. Diameter of the reamer has to be worked out so that when the case is removed from the die, natural expansion still leaves it small enough to hold the bullet.

Now comes the proof of the pudding. Only reamed cases can be used successfully in that rifle. I got 100 of those cases, treated them as described above and after all of these years I still have them. Swift barrels are supposed to shoot out fast—this has taken almost 3,000 rounds and is still capable of less than ¾-inch groups. Case necks are reamed about every fifth loading, and trimmed lightly every tenth. I have no idea how many shots this brass has withstood.

I attribute the long barrel life and accuracy of this rifle to the method of tight chambering, proper resizing, reamed cases, and no excessive neck tolerance to permit gas to escape and erode the neck and throat as the bullet starts.

SCOPE MOUNT FOR TOP EJECTORS

How is it possible to mount a scope on a model 95 Winchester rifle? As yet I have not seen an advertisement in any sporting magazine for mounts for any of the top-ejection rifles.

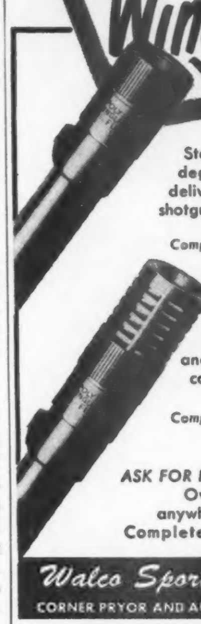
Question number two—Was there any advantage to the octagon barrels made in former years? Why are only round barrels made now?—G. E. Reuter, New Castle, Delaware.

Answer by Phil Sharpe: In years past, telescope sights have been mounted on the top ejection Winchester lever rifles, but they must be offset to the left or the ejected case will strike the scope and fall back into the action to jam the gun. There have been several mounts made for these, but they never proved popular.

An offset scope is difficult to sight in, and when sighted in for one range will shoot left or right at longer and shorter ranges. In addition, the offset makes it impossible to check the rifle in normal shooting position, and it is usually necessary to 'build out' the stock with a clumsy cheek pad laced to the stock. I do not know of a scope mount suitable for your old model 1895 action. The manufacture of these rifles was discontinued in 1936, and scope makers do not care to tool up to produce mounts for which there could be little or no sale.

Octagon barrels were made in bygone years (also half-octagon where the front half was round) chiefly because it was a 'style', like the curved rifle buttplates and knob fore-ends. Such barrels cost extra, since they were first manufactured oversize and round, and then milled to form the flats.

Wingshots!



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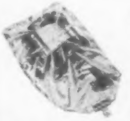

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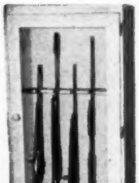

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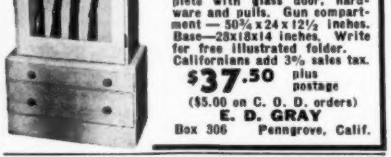

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About the only advantage to them was the flat top surface which aided in eliminating canting or twisting of the rifle. Back in the days of 40 years ago when a good rifle cost $20, octagon barrels cost two or three dollars extra. They just went out of style. Today, with increased manufacturing costs, to make an octagon barrel would probably cost the customer at least $10 to $15 additional.

SHOCKING POWER vs VELOCITY

Some twenty years or more ago the Rifleman published an article on shocking power and high velocity bullets. Over the years I have had a rather strong and tenacious impression that to obtain the maximum in shocking power (say in a .30-'06), trajectory and velocity would have to be sacrificed. I have had to defend this position several times and in view of the theoretical concept of physics of the matter I have been shown the error of my ways. However, I am still a firm believer that the 220-grain bullet fired from a .30-'06 Springfield will bring down more game than will a 150-grain bullet fired from the same gun (that is experience speaking).

Would you be kind enough to refer me to the article, or give me some discussion of this problem. — Henry Carter Rea, Casper, Wyoming.

Answer by Elmer Keith: Factory energy figures are very misleading and have never worked out for me in actual game killing. I agree with you 100 percent that the 220-grain bullet is by all odds the best killer in the .30-'06 on game of any size larger than deer and sheep. The high-velocity light bullet does have its inning on very light game when given lung shots, but when you turn to heavier game it usually produces surface wounds.

The only formula that I ever found that would put all calibers and loads in their respective place was the pounds-feet formula and is arrived at thus. Multiply bullet weight in grains by velocity and divide the product by 7000 (the number of grains in a pound). The answer you get is the foot-pounds of energy of the bullet. Thus the 220 grain .30-'06 at 2400 feet:

$\frac{220 \times 2400}{7000}$ equals 75 pounds feet plus.

You can use this formula with all bullet weights and calibers and see what I mean. It has come nearest of any to actual performance on game under my observation and I have seen over 700 killed to date and killed 132 head myself.

RINGED BARREL

I have a Model 70 Winchester .22 Hornet that has a small ring in the bore a short distance ahead of the chamber.

Is there any gadget that I can get to remove this ring myself, or can I send it to a gunsmith to be lapped out?—E. M. Hatfield, O'Keeffe, West Virginia.

Answer by Harold MacFarland: If anyone were to lap or otherwise cut that Hornet barrel of yours enough to remove the ring in it, they would totally ruin the barrel. You have three courses open. You can rebarrel. Or, if that ring is far enough back, you can have a gunsmith set the barrel back a few threads and rechamber, or have it converted to a longer cartridge like the new 222 Remington.

STEYR NOT FOR WILDCAT

Will the action of my 1913 Steyr 6.5 mm. rimmed be satisfactory for building a varmint rifle?—PFC. JAMES B. SAMMONS, MacDill Air Force Base, Fla.

Answer by Harold MacFarland: I'm afraid the job of trying to make a high-speed varmint rifle of your Steyr is rather hopeless. The magazine is the big stumbling block. Steyr design just can't be changed to work the little high speeds. It would be possible but not practical to alter the bolt head and extractor for something like a .218 Bee; but you would still have a single shot.

.32-20 BULLETS IN .30 RIFLE

Must the 80-grain .32-20 bullet be swaged down for use in the .30-'06?—V. D. HEINZE, Aurora, Col.

Answer by Al Barr: You will find the .32-20 bullets measure approximately .310 to .311 inch diameter, therefore, they can be used without sizing in regular .30-caliber rifles. Some years ago I found 48 to 50 grains of 3031 powder a good load with these bullets and although it isn't a maximum load, it was fairly accurate. These very light thin-jacketed bullets won't stand extreme velocity in the .30-'06.

GUNSMITH TRADE DOPE

Jess C. Berger, 812 East Maple, Cushing, Oklahoma, has acquired a quantity of the large-size British Martini actions originally made for the .303 British cartridge. These actions have a small firing pin making them suitable for rebarreling to high-velocity cartridges of the rimless type such as the .219 Wasp and the Improved .219 Zipper or any other rimmed cartridge case. The price of these actions from Mr. Berger is quoted at $20.00 postpaid.

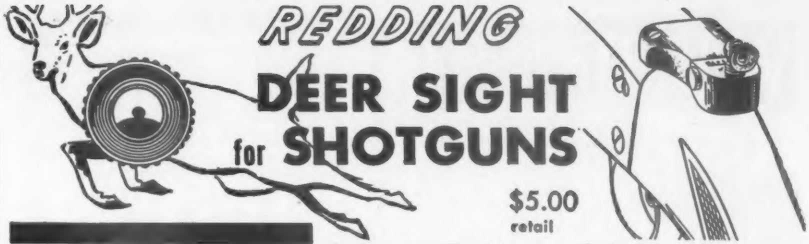
Cole Agee, 2300 Christine Street, Fort Worth 5, Texas, well known custom gun engraver, informs us that he can not continue his gun engraving service because of an arthritis condition. Some of the work on hand is being finished, but some of the guns sent for engraving will have to be returned to their owners.

Edgar J. Fox, Jr., Custom Loader of Easton, Pennsylvania, has moved to new quarters. The new address is: 513 Raub Street, Easton, Penn. A price list for custom loads for many different calibers is available.

Firearms International Corporation announces that their business will be set up in their new quarters about September 15, 1951. The new address will be 6521 Kirby Hill Road, Washington 20, D. C. Firearms International is also announcing a slight increase in the retail price of barrel actions. The price increase will go from $71.50 to $74.00.

Herter's, Inc., well-known gunstock manufacturers, are also prominent in the decoy and hunting equipment field and have just released their 1951 catalog covering these lines.

In addition to listing more than thirty models of duck, goose, crow and owl decoys in balsa wood and plastic, the catalog features game calls of all kinds, including those for ducks, geese, crows, turkey, squirrel and deer. Of special interest to amateur boat builders is the new Fiberglas cloth for hulls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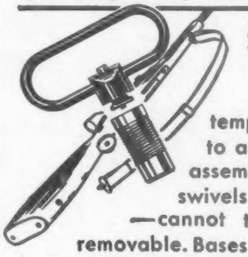
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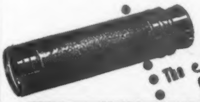
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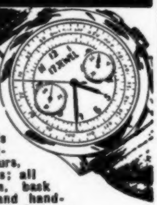

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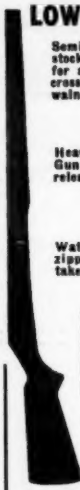

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which produces a boat with a tensile strength greater than steel, which is also immune to rot, shrinking or swelling. Also described in detail are Herter's new shotgun choke devices, the Vari-Choke and the Vari-Choke with Recoil Eliminator.

Rifleman readers, who follow the companion sport of small game and waterfowl hunting with shotguns, will be interested in obtaining a copy of this catalog. Request Catalog 86, Dept. 23P, Herter's, Inc., Waseca, Minn. There is no charge for this catalog.

Jerry Crozier, 121 S. Main Street, Homer, N. Y., has issued a very attractive 1951, 20th Anniversary catalog listing and illustrating hundreds of different guns, including handguns, rifles and shotguns, all the way from antiques up to modern rifles and shotguns. There are eleven full-page plates illustrating most of the guns described in the catalog. The illustrations show up very nicely, as they are printed on hard, glossy paper. The illustrations are good enough to be helpful in identifying other guns. In addition, every item listed has a price on it. The prices do not seem unreasonable, and there are many scarce and unusual pieces listed. There are twenty-eight 9 x 12 pages. This catalog is a fine piece of work and sells for fifty cents per copy.

After looking one of these catalogs over, we are not surprised when Jerry Crozier states, "It has cost us a lot of money."

High Standard reports that production of their new Olympic model .22 short automatic pistol has been indefinitely discontinued due to defense contract obligations. Limited quantities of the Supermatic model will be produced, but no Olympics will be available for some time.

NEW PRODUCTS

Moderate priced, general purpose, imported binoculars are featured by United Products Company, 9043 S. Western Avenue, Chicago 20, Illinois. Three of the latest models made in "Occupied Japan" have been thoroughly tested. These included the featherweight vest pocket 7 x 18 individual focus model which weighs only seven ounces and retails at $24.95 with leather case and straps. In actual use where a very light, small, compact binocular is needed, this 7 x 18 should serve the purpose.

A more useful model, the 7 x 35 individual focus weighing only 17 ounces and selling for $45.50 was tested. For average field use it was the pick of the three models tried under similar conditions. The optics were very good, and this model seemed to be a good buy for the money.

The larger 12 x 50 center focus binocular weighing only 24 ounces was good, but not as desirable for general use as the 7 x 35.

A ring shaped shotgun front sight called the Per-i-site is now being marketed by the Per-i-site Company, Beaverton, Oregon. A spring-steel clip or tube slips onto the front of the gun barrel and holds 1½-inch steel ring just over the muzzle of the gun. This ring is designed to outline a thirty-inch circle at forty yards. It is supposed to give an automatic indication of the amount of lead, hold-over or hold-under. Thus for a bird coming in from the right, the right edge of the circular sight should intersect the bird at the instant of firing.

The Per-i-site is already available in three styles, for 12-, 16-, and 20-gauge single-barrel guns, at a price of $3.50. Later, it will be available in the three gauges for side-by-side double, for over and under doubles, and for ventilated rib singles, at a price of $5.00.

The Colt Cobra is the name given by the Colt Manufacturing Company to a lightweight six-shot two-inch barrel companion revolver to the well-known Detective Special.

In THE AMERICAN RIFLEMAN for August, 1951, pages 22 and 23, we described several lightweight revolvers being tested by the Air Force. The new Colt Cobra is practically the same as the model number four described in that article, which is essentially a Detective Special with the barrel and cylinder made of steel and the frame and side-plate made of high strength lightweight aluminum alloy called Coltalloy, which is the same material that is being used in the Colt Commander military-type automatic pistols.

Designed specifically for the detective or plainclothes policeman, the new gun can be had in .38 Special, .38 New Police, or .32 New Police calibers, and weighs only 15 ounces.

Mo-Lube is a fine lubricant and anti-seize compound giving high film strength, excellent adherence and fine lubricating qualities at high temperatures and extreme pressures. Essentially Mo-Lube is a specially prepared mixture of molybdenite concentrate and a high quality light bodied oil.

We understand that static fricton tests conducted at the National Bureau of Standards show that thin lubricants containing molybdenum disulfide gave the lowest friction in a comparative test using a number of special lubricants. In appearance molybdenum disulfide resembles graphite but it is an enitrely different type of lubricant.

Mo-Lube containing molybdenite concentrate is available from the Mo-Lube Company, 29 Orchard Lane, Kirkwood 22, Missouri. It is available in two-ounce bottles for $1.00 postpaid.

Safety powder funnels are available from B. E. Hodgdon, Merriam, Kans. These aluminum funnels designed to fit over the outside of a cartridge case instead of fitting inside the neck eliminate much of the possibility of powder sticking in the funnel especially when big charges of coarse powder are used. The funnels are available at 75 cents and may be had in different sizes from .22 through 8 mm.

A swivel trigger shoe is made by Arms Products, 101 W. 60th Street, New York 23, N. Y. The trigger shoe, available for most popular rifles and handguns, retails at only $2.00 and it may be installed without the aid of screw driver or other tools.

Most important claims made for the swivel trigger shoe is that it helps the shooter by eliminating that side to side wobble which is annoying as the shot is squeezed off. Another claim is that it makes the trigger finger exactly fit the gun and assures good overall hand contact that gives a good, steady and secure hold. After limited use, we think the swivel trigger shoe

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BIG MEN'S CATALOG

can frequently be very helpful to the shooter. In addition to use on handguns, it should prove an aid on the benchrest rifle where a uniform trigger let-off is extremely important for small groups.

A very good gunstock finish with a linseed oil and shellac base has been developed by Jack M. Werts, Syracuse, Kansas. The finish is easily applied and dries rather quickly and penetrates the wood well instead of building up on the surface. This J. W. stock finish works well even when applied over some old finishes and usually two applications are sufficient. The stock finish leaves a lustrous but not a shiny surface. It will be available in clear type as well as mahogany and walnut colors. The mahogany color works very well on a wild cherry and walnut laminated stock.

Custom made, form-fitting handgun grips are a feature of Kellar's Custom Loading, Big Run, Pennsylvania. To accomplish the form-fitting feature a piece of modeling clay 5 x 3 x 1½ inches is held in the shooting hand with the thumb held in the rest position. The block of clay is squeezed until the thumb rest and fingers are well indented. This impression of the shooting hand is sent to Kellar's Custom Loading where it is baked in an oven and used as a pattern for making the finished stocks which are carved to exactly duplicate the impression in the clay. These stocks will be available in various types of wood including sumac, walnut, maple, apple, and cherry. The retail price per pair is $15.00. Those we have seen were nicely carved and well finished. Later these form-fitting grips will be available in tooled lucite of varying colors with hand painted integral carvings at a cost of from $20.00 to $75.00.

BOOK REVIEWS

DEAD AIM

By Lee E. Echols

This little book is a collection of light and humorous anecdotes about pistol shooters and their foibles and adventures, told in his own inimitable style by NRA's Western Field Representative, Lee Echols.

Lee is a topnotch pistol shooter. He is a fluent and experienced writer. He is a picturesque and extravagant originator and teller of tall tales. He has a rare sense of humor, and an outstanding facility with the use of the pointed and humorous simile. Lee Echols has been around.

With such an author to father it, it was certain from the first that Lee's book would be both funny and highly entertaining.

The book is short, only 116 pages, with just enough humorous drawings by artist Lebert E. Prather—and it is divided up into a number of sections, each of which is complete in itself and can be read on its own. Several of the chapters are reprinted from THE AMERICAN RIFLEMAN. The book is just the thing to pick up for a few moments of relaxation when life seems to be getting too serious.—JULIAN S. HATCHER.

(Greenberg, Publisher, 201 E. 57th Street, New York 22, N. Y. $2.00. Available through the NRA Book Service.)

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BRITISH ENFIELD .303 SPORTER

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Hi-Powered precision 6 shot bolt action .303 British ENFIELD repeater CONVERTED by expert gunsmiths into a Streamlined SPORT MODEL. Walnut stock. 26" Barrel. Blade foresight and aperture rear sight. Noted for its smooth action and ballistical properties. Makes ideal hunting rifle. Weighs only 8½ lbs. A chance to get a Hi-Powered proof tested SPORTER at a fraction of what they will cost this fall. .303 Enfield Ammunition made by Remington. 215 Grain. Express soft point. Shells permit reloading and using innumerable times.

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Made by Remington and Winchester Same as above, except it is the Military model, as issued. Condition "Very Good." Uses .303 British ammunition made in U.S.A. by Remington Arms Corp.

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$37.50 Very Good

Official World War II German Military Automatic Barrel length 4¾"; overall 8½"; weight 34 oz. 8 cartridge magazine. Proof tested. Condition "Very good." SAME MODEL EXCELLENT CONDITION—$47.50. F.O.B. Chicago.

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Model 514A chambered for .22 short, .22 long and .22 long rifle cartridges, interchangeable standard or higher speed velocity. Adjustable rear sight, flat integral bead front sight. Special safety features. Full size. One piece pistol grip stock genuine walnut. 42" length, weighs 5¼ lbs. Brand new. Regular price $16.10.

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22" Round, Tapered, Takedown Barrel—Receiver one piece. For .22L or .22S High speed or Regular cartridges. Bolt Action. Gold bead front, Sporting rear Sight with Elevation adjustment. Length 32", weighs 4 lbs. Reduced down for immediate sale from $14.12.

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$29.50

Very Good Condition

Made by WEBLEY of England, supplier to the British Government, War Dept., Air Force, Navy and major Police Depts. Recently proof tested. W. H. B. Smith in the NRA's book "Small Arms Of The World" states "One of the finest heavy duty hand weapons ever made, permits opening and extracting cartridges with one movement of the hand." These revolvers TRIPLE lock cylinder during firing. Truly a fine value at $29.50 FOB Chicago. Same model "Excellent Condition" $34.50. No COD's please. Ammunition plentiful. Use any .450 or .455 Revolver ammunition suitable for Colt or S & W Revolver (not automatic). Or we can supply Smokeless, Non-Corrosive 265 Grain Box of 50 for $5.35.

9MM German Auto LUGER

$39.50

Very Good Condition

The world famous Official German Army LUGER. Weighs 31 ounces! Their condition is "Very good." These LUGERS have a Muzzle Velocity of 1150 ft. per second! Striking energy is 365 foot pounds! They have fixed sights, and special safety features. Overall length 8¾". 8-cartridge magazine. Proof tested. American and German made ammunition is available anywhere. Same model "Excellent Condition"—$49.50.

.455 SMITH & WESSON SERVICE REVOLVER

$39.50

Excellent condition. Manufactured to meet exacting requirements of severe usage. Represents highest point of accuracy, efficiency, and ability to withstand hard wear. Powerful, fast handling gun for practical shooting up to 100 yards. Blued finish. Checkered walnut stock. Weighs 36½ ozs., 6½ inch barrel. 11¼ inches overall. Sights are fixed service type. Maximum range approximately 1600 yards. Muzzle velocity 770 ft. per second. 349 foot pound striking energy. Use Colt or S&W .455 Revolver ammunition (not automatic) or we can supply smokeless, non corrosive 265 grain Box of 50-$5.35.

Smallest.22 Auto. made

$35

.22 VB Baby Automatic Bernadelli. Meets sportsmen's demand for Pocket Automatic using .22 Long or Short cartridges. Packs a punch! Easy to carry. Weighs 9 oz. 6 shot. 2⅛" barrel. 4⅛" overall. Blued. Non-projecting sights. Use EITHER .22 Long or .22 Short Cartridges. TWO magazines furnished, one for both size cartridges. Orders will be filled in rotation.

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Every gun is sold with the understanding that if you are not completely satisfied in every way return your gun within 5 days for a full unquestioned refund of your money. RIFLE cash orders shipped prepaid. C.O.D.'s include $5.00 deposit. HANDGUNS are all shipped FOB Chicago and C.O.D. orders cannot be accepted. In ordering firearms you must state in your order you are not a minor, alien, fugitive from justice under indictment or been convicted of a crime of violence. NONE SOLD TO MINORS!

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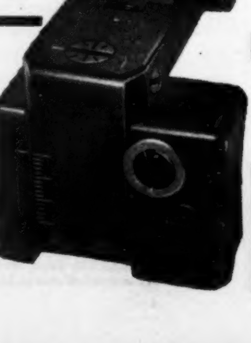

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7389 Lapeer Rd. Davison, Mich.

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rates: 25 cents per word including name and address—minimum charge $3.00. Advertisements *must be cccompanied by remittance*, addressed to "The Arms Chest," American Rifleman, made payable to "National Rifle Association"—1600 Rhode Island Ave., Washington 6, D. C. *Insertion will not be made until payment is received.*

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: Sept. 1st for the Oct. issue. Ads received after Sept. 1st and not later than Oct. 1st will be inserted in the Nov. issue.)

3. All Ads Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

4. Transactions Based on Good Faith: Deliberate misrepresentation, or violation of the codes of good sportsmanship and good business ethics, will constitute grounds for refusal of advertising, and may result in disbarment from N.R.A. membership.

5. Blind Ads Not Acceptable: Blind ads, with box numbers *only*, will not be accepted. Give your COMPLETE name and address, to insure prompt and certain delivery of all mail or telegraph replies.

NOTE: Postal authorities no longer are required to provide directory service for even first-class mail which does not carry a *complete* local address!

6. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith (W. H. counts as one word); H. B., meaning heavy barrel, etc.; W. H. and H. B. are one word) Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

7. No Responsibility for Illegible Copy: The publishers are not responsible for errors in printing advertisements, due to illegible copy; type or print clearly all ads.

8. All Articles to Be Properly Described: To avoid misunderstandings the condition of every advertised article should be described in accordance with the following definitions, NEW—not previously sold at retail, in same condition as current factory production; NEW—DISCONTINUED—same as NEW, but discontinued model. The following definitions will apply to all SECOND-HAND articles: PERFECT—in new condition, in every respect; EXCELLENT—new condition, used but little, no noticeable marring of wood or metal, bluing perfect (except at muzzle or sharp edges); VERY GOOD—in perfect working condition, no appreciable wear on working surfaces, no corrosion or pitting, only minor surface dents or scratches; GOOD—in safe working condition, minor wear on working surfaces, no broken parts, no corrosion or pitting that will interfere with proper functioning; FAIR—in safe working condition but well worn, perhaps requiring replacement of minor parts or adjustments which should be indicated in advertisement, no rust but may have corrosion pits which do not render article unsafe or inoperable; POOR—badly worn, perhaps requiring major adjustments or repairs to place in operating condition.

9. WARNING TO PURCHASERS: The publishers *will accept no responsibility* for *any* unsatisfactory transaction involving articles which have not been described in accordance with the foregoing NRA standards. Purchasers or traders should therefore insist that sellers give clear descriptions of all articles, in accordance with these standards—*before* any transactions are consummated. Purchasers should also request shipment by express C.O.D., *with examination privileges;* the purchaser may (and should) then examine the shipment in his local express office—if unsatisfactory the article will then be returned by the express company to the shipper, at the latter's expense.

10. **The National Firearms Act** forbids the sale of the following: (*a.*) Full automatic machine guns. (*b.*) Rifles and shotguns with barrels less than 18 inches in length or 16 inches in the case of a weapon of .22 or smaller caliber. (*c.*) Handguns such as the Mauser or Luger automatic pistols, when such weapons are equipped with detachable butt stocks, except that all of the above may be sold by a Federal licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code.

NOTE:—"Barrel length", as it applies to the above, is determined by the insertion of a cleaning rod from the muzzle until it comes to rest against the face of the closed breech.

11. Fair Trade Laws: Advertising will not be accepted for articles to be sold in violation of Fair Trade laws, after the manufacturer has advised the NRA that such violation exists.

FOR SALE

RIFLES, WIN. MODEL 94, LEVER ACTION, in cals. .30-30 and .32 Special, new, $72.15. Immediate delivery. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

NEW SHOTGUNS AND RIFLES, IMMEDIATE delivery. Remington 11-48B "Special" grade 12, 16, 20 gauges, $128.75. Standard grades, $115.45. Sportsman 48B "Special" grade 12, 16, 20, $128.75. Standard grade, $115.45. Remington 721B Special grade, checkered stock, selected wood .270, .30-'06, $124.75. .300 H&H $136.30. Standard grades, $92.35. Remington Model 870 pump, $80.80, deluxe grade, $92.35. The Hobbs Sportsman. 115 North Shipp, Hobbs, New Mexico.

20-GAUGE BROWNING SUPERPOSED, Skeet bored, fired 75 rounds, $220.00. Winchester M70 .257 Roberts, never fired, $120.00. N. D. Gibbs, 89 Ridge Avenue, Athol, Massachusetts.

PUT MORE GAME ON YOUR TABLE! FREE "Wing Shooters Handbook" tells pump or autoloading shotgun shooters how. Write the Poly-Choke Co., 607 Tunxis St., Hartford, Conn., for your copy.

TRAP, SKEET AND HUNTERS SHOT GUNS, rifles, revolvers (trades). Cash for your choice guns (stamped envelope). Hershey's, Orrville, Ohio.

PERCUSSION COLT AND REMINGTON parts. Flint and percussion locks. List 25¢. C. H. Weisz, 100 South Uhle Street, Arlington, Virginia.

GUN RACKS, SOLID WALNUT, WALL type, self-leveling, new, for three guns, $6.95; for four guns, $9.95. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

SHOTGUN WADS, 10 AND 12-GAUGE, ¼-inch felt, $3.00 per thousand. $14.00 per 5,000 postpaid. Samples for stamp. Dealer inquiries invited. Ted Clines. 11 Lewis, Canton, Mass.

BIG CATALOG, ANTIQUE GUNS, $1.00. 475 photographs Satisfaction guaranteed. G. B. Hebard, Knoxville, Illinois.

LARGE COLLECTION OF AMERICAN AND European antique arms. Send 25¢ in coin for our 19th catalog issued soon. We buy whole collections or single pieces. Fair prices paid. Kimball Arms Company, Woburn, Mass.

GUN CABINET, KNOTTY PINE, BEAUTIfully finished, custom quality, 8 or 10 guns, $94.50. 25¢ coin (deduct first order) catalogue Gun Racks, Cabinets. Knox Wood Products, Knoxville, Iowa.

GARAND, CARBINE, ENFIELD, SPRINGfield parts. No lists. State your wants. Enclose stamp for reply. Greeley's Gun Shop, 448 Pompton Ave., Cedar Grove, N. J.

FLEXIBLE SHAFT TOOL BY FAIRCHILE for grinding, polishing, sanding, buffing, carving. Original price, $19.95. While they last! Special price, $12.95. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

18 PAGE PRICE LIST OF OLD AND NEW guns, edged weapons, parts, books, antiques for 25¢. Herb Brand, 46 N.W. 95th St., Miami Shores, Florida.

NEW SHOTGUNS, IMMEDIATE DELIVERY, Prepaid and insured. Remington 870 A.P. pump 12, 16, 20, $80.80. Remington 870 ADL, deluxe grade, $92.35. Ithaca 37, featherweight pump 12, 16, 20, $91.17; with rib, $109.30. Winchester 12 pump 12, 16, 20-gauges, $98.15; with rib, $115.45. Winchester 12, heavy duck, 3" shells, $109.65; with rib, $127.00. Winchester 42 pump, .410 gauge, $85.45. Remington 11 '48 five-shot automatic or Sportsman '48, three-shot, 12, 16, 20, $115.45; with ventilated rib, $138.55. Belgian Browning Automatic 12, 16-gauges, $119.90. Belgian light 12, sweet 16, $129.85; with hollow rib add $13.10; ventilated rib $21.80. Send Money Order or check. Free gun list and illustrated literature of any specified gun. Trade-Ins accepted. Lay-away plan. Discounts to Dealers. Mann's Sporting Goods Company, 100 Genesee Street, Utica, N. Y.

190 PAGE PROFUSELY ILLUSTRATED catalog crammed with antique and modern pistol, sword, dagger, etc. values sent on receipt of 50¢. Robert Abels, R860 Lexington Ave., New York 21.

FREE COPY OF AMERICA'S LARGEST GUN list. Published monthly. Write—Shotgun News, Columbus, Nebraska.

ANTIQUE FIREARMS, ACCESSORIES AND parts. All illustrated lists for a year, $1.00. Weisz, 100 South Uhle St., Arlington, Virginia.

ATTENTION SHOOTERS! WILLIAMS ARE manufacturers of the finest in precision shooting equipment: Foolproof receiver sights, quick convertible top and offset scope mounts, streamlined hood and hoodless ramp front sights, guide sling straps (plain and hand-carved), standard sling swivels, slot blanks, open sight bases, white center dial scoring targets, screw and sight assortments, standard gunsmithing screws, Williams gun oil, stock finish, bore cleaner and walnut stain and filler. Write for literature. Complete catalog 25¢. Address inquiries to: Williams Gun Shop, 7387 Lapeer Road, Davison, Michigan.

SHELLS. BOX OF 20 JAPS .31, $3.50. JAPS 25, $4.00. .40-82 .40-60, .40-65, .38-56, $4.50, and others. Gust Custom Loading, 3155 40th Avenue South, Minneapolis 6, Minnesota.

FABRIQUE NATIONALE DELUXE RIFLES. The finest in hand-fitted and hand-finished rifles. For the discriminating shooter who wants the best. "Sako L46" precision varmint rifles in .222R caliber. "Hensoldt" scopes and Roof Prism binoculars. Life Member Sam Friedman, 782 Pelham Parkway, New York City.

SERVICEABLE SA COLT PARTS: HAMMER $4.25, trigger, $1.50, gate, $2.25, trigger guard, $4.50, ejector head $2.00, mainspring $2.00, screws 35¢ each, hand w/spring $2.00, .45x5½" barrels, pitted $3.25. 20-shot magazine for .30-'06 Springfield $8.00. Parts for C&B revolvers. B. K. Wingate, Box 154, Carlisle, Pa.

Customers Everywhere!

"We wish to express our appreciation for the excellent results received from our advertising in The RIFLEMAN. Our customers are from every state including Alaska and Hawaii, and some from Canada, as well as servicemen overseas."

"Your magazine has contributed greatly to the success of this business."—Wash.

Many prosperous businesses have been built up from very modest beginnings, solely thru these advertising columns.

260,000 *active* sportsmen are pre-selected prospects for a wide variety of man-use products or services. And the cost of reaching them, thru the "Arms Chest", is *extremely* low—only 25¢ per word, or less than 1¢ per word for every 10,000 readers!

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Your ad "copy" for the November issue must reach us, with remittance, not later than October 1st.

MILE-O-METER Shows How To Save GAS

The *Mile-O-Meter* gauge is a scientific instrument of known merit for showing any driver the condition of his engine and miles-per-gallon rate. Operates on intake manifold vacuum. Easily installed on any car or truck. Simple-to-read, 4 color dial is set in steel case. Beautifully finished. Accurate internal movement. Shows how to correct engine condition. Makes a perfect gift. Gift packaged. De Luxe Model 3⅝" all Chrome dial $14.95 Ppd.; Standard Model 2⅝" Black Lacquer dial $9.75 Ppd. Federal Tax included. Gale Hall Engineering, Dept. 1661, Boston 18, Mass.

Largest Producers Of Tune-Up Gauges In The World

TACKHOLE DOT
REGISTERED U. S. PATENT OFFICE NO. 444,905

LEE TACKHOLE DOT

(the *original*)

LEE DOT reticule for scope sights, the ORIGINAL. Preferred by thousands of game, target and varmint shooters. Fast, accurate, guaranteed. A new thrill in rifle shooting awaits you! Promptly installed any Weaver scope $7.50; Alaskan, Challenger, Cub, Texan, Noske, Bausch & Lomb $12.50; Unertl, Falcon, Condor and Hawk, and all target scopes $10.00. New scopes stocked immediate shipment: Lee Dot equipped any size: G4 $16.75; G6 $19.50; J2.5 $30; J4 $35; K2.5 $45; K4 $52.50. K6 $56; K8 or K10 $67.00; Alaskan $77.50; Challenger $102.00; Balvar $92.50; Baltu or Balfor 77.50; Texan $67.50; Texan 4X $72.50; Cub Master $67.50; Cub double adjustment $97.50. Cub 6X NA $82.50. DA $112.50; Hawk $62.00; Falcon $58.00; Condor $76.00. Weaver KV $65.00. K1 $41.50. All Lyman, Unertl, Fecker, Litschert target scopes list. Stith, Redfield, Weaver, Echo and Mykrom mounts. Free illustrated folder. Standard discounts dealers. Prompt service always.

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7 lbs. without sights—Newly designed and built by Master Craftsmen

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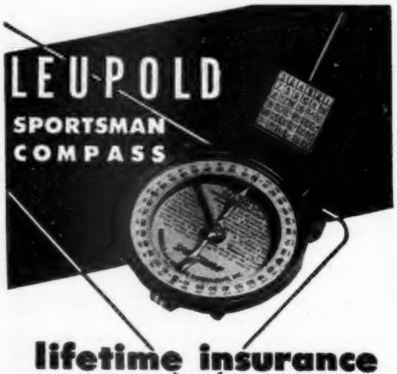

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No tools needed.
Fits most rifles and carbines.

Price postpaid $1.50

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Judd's Barrel Band Swivel
with plain Butt Swivel $2.00
with Q.D. Butt Swivel $2.50

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1" or 1¼" Bows

.700 (41/64") Fits Most Rifles and Carbines
.730 (47/64") Fits '71-86 Winch. & others
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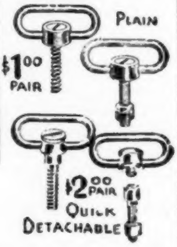

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Over 60 different calibers.
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Gunsmiths—Shooters—Dealers

I offer you Professional service from a modern, completely equipped shop set up to do the best possible reblueing job on all your arms. Genuine rust process blueing available in limited quantity on double barrel shotguns only. Your letterhead with Federal License number will bring my very generous, professional discount. For the best in Re-blueing at a reasonable price write to—

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Fully Illustrated, 96 pages, showing Hunting Footwear, Clothing, and fifty-two other leather and canvas specialties of our own manufacture for campers and hunters.

L. L. Bean, Inc.
272 Main St.
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FOR SALE: 'THE BEST GUN-LOVER, shooter, hunter, hobbyist, gunsmith catalogue yet. 64 pages crammed to busting. Yours for a 1¢ Post Card with your name and address. Brownell Industries, Inc., Main and Third. Montezuma, Iowa. (If you bought our No. III—don't order—you'll get one anyhow).

OUR LIST OF MODERN ARMS WILL BE sent on receipt of three cent stamp. Kimball Arms Company, Woburn, Mass.

NEW MODELS, 5E, 4E, ITHACA TRAP, Mod. 70's, Mod. 721's, 722's. All calibers. 99 Savages. Specify. No trades. Discount to dealers on 70, 721, 722, 94, 99. Special, excellent Model 43 Bee, $49.95. Model 12, trap, $179.95. Model 24, $67.95. Model 94, .30-30, $59.95. Model 64, .30-30, $79.95. Overly's Gun Rack, Ephrata, Penna.

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NEW HIGH STANDARD SPORT KING 4½ and 6¾, $44.00. Prepaid in U. S. C. H. Lawson, Edgewater, N. J.

LATEST EXCELLENT PLUS WINCHESTER 70 .300 H&H, Redfield base, Whiteline, Grimes case, $115.00. Truline Jr. .300 H&H, 1500 primers, components, 20% discount. Ithaca 37-12, Weaver choke, Whiteline. $85.00. Shells $2.25 box. Perfect Colt Detective .38 Special, $56.00. New Lyman .38 Spl. dies, 358311 blocks, 1000 primers, 10% discount. Pacific scales $6.50. Winchester 94 .30-30. V.g. $50.00. New .45 lubricator, 311413–358311 dies, 1000 primers, 10% discount. Henry Lyons, Castroville, California.

YOU CAN GET 800,000 ARTICLES WHOLEsale, direct from manufacturers. Big Discounts! You'll save money by buying direct. Send for your free copy of "Where to Buy It Wholesale." KeeKal, Dept. 118, Kalamazoo 9, Michigan.

M70 WIN. .22 HORNET—.220 SWIFT .257 .30-'06, $126.50. M721 Rem. .300 Magnum $103.90. M43 Win. .22 Hornets $63.45. M70 National match, new, never fired, $182.00 rifle for $145.00. Immediate delivery Postpaid. No COD's. Don's Sporting Goods, 701¼ S. Arlington St., Akron, Ohio.

CHEAPER—EASIER—FASTER—SHOP BY mail. 25¢ brings bargain gun list. Buy—sell—trade. Ed. Agramonte, 201 Warburton, Yonkers, N. Y.

F. N. MAUSERS, ALL CALIBERS, $137.50 with Lyman 48 sight. Winchester model 70's, new, $126.50 with Lyman 48 sight. All makes new guns available for immediate delivery. Cac's, 961 Peachtree, Atlanta, Ga.

.38 SPECIAL BRASS ONCE-FIRED, cleaned, packed in factory boxes $10.00 per 1,000. Mixed makes loose $8.00. .45 ACP nickel $12.00 per 1,000 Brass $10.00. .30-'06 Arsenal $12.00. C. H. Lawson, Edgewater, N. J.

NEW HANDGUNS, IMMEDIATE DELIVery, prepaid and insured. Smith and Wesson Combat .38 special, $71.50. K22 or K38, $71.50, Military and Police .38 Special. 2, 4, 5, 6-inch barrels, $62.00. Colt Challenger .22, $52.50. Sport or Target Models, $70.00. Match Target 4½-inch or 6-inch barrel, $85.00. Official Police .38 Special, 4, 5, 6" barrel, $65.00. Colt Commander automatic .38, .45, 9MM, $65.00. Trade-Ins accepted. Lay-away-plan. Please send Money Order or check. Free gun list and illustrated literature. Discounts to dealers. Mann's Sporting Goods Company, 100 Genesee Street, Utica, New York.

Smith & Wesson COLLECTORS!

OUR LATEST PARTS AND ACCESSORIES LIST CONTAINS ITEMS OF GREAT INTEREST TO YOU. PLEASE SEND STAMPED ADDRESSED ENVELOPE FOR YOUR FREE COPY!

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SAVE UP TO 85% IN WAR SURPLUS
"GADGETEERS HEAVEN"

Sheepskin Lined LEATHER JACKETS
These are Navy Arctic Jackets. Fully Lined with the finest quality SHEEPSKIN obtainable. Comes with storm tabs fur collar. Two deep patch pockets, adjustable waist and heavy duty, zipper closure in front. These jackets cost the Gov't approximately $80. Palleys now offer them to you, in excellent condition 28^{95}

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Leather with fleece or chamois lining.. Has ear puffs & chin cup for extra protection. Especially designed for winter weather. A BUY! 1^{95}
Fine Quality Leather. Chamoislined with chin cup and strap. Lightweight, warm, comfortable. Protects head from frosty weather. 1^{59}

HUNTING KNIFE
Genuine G.I. equipment. A rugged outdoor knife with polished, 6 inch Vanadium blade. Full grip handle is leather-fiber discs. Has tan leather sheath . . . 1^{95}
HUNTING KNIFE SET - Simulated Pearl Handles. 1 HUNTING KNIFE with 4" sabre ground blade and 1 FISHING KNIFE with 3" flat blade. Both in leather sheath. 5^{95}

LUND TRAILWAYS SNOW SHOES
Genuine LUND Snow Shoes. Size 10 by 52. One-piece special, hardwood frames laced with good quality, water-proof, thongs. Designed for faster, easier travel. A $20 Value. 14^{95}

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Good Quality with natural cane pole and leather laced, metal snow ring. Pole is metal tipped. Has wrist strap. Length 4 feet. 3^{95}

17 Power Telescope
A fine quality, IMPORTED instrument. Gives a bright, clear image with a wide field of view. An ideal telescope for all-around use. ONLY 7^{95}

ARMY RAM ROD
For rifle or pistol. Has bronze wire bristle tip. Shaft in three 12" sections of brass . . . . . 1^{25}
RIFLE CLEANER - Liquid. Made by Army spec. R1XS-205 . . . Keep bore in top condition! 6 oz. Can . . . . 25¢

SAVE UP TO 85% ON WAR SURPLUS
1951 CATALOG
200 ILLUSTRATED PAGES with THOUSANDS of MONEY SAVING Bargains in Camping & Outdoor Equipment, Clothing, Hunting Supplies, Photo supplies, Binoculars, Tools, Machinery & many, many more. Send only 25¢ Today.

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Dept AR-9, GLENDALE 1, CALIF.

NEW! 7x50 BINOCULARS
The Popular Choice of the Army, Navy and Air Force! For extreme brightness of image and needle sharp, 7 POWER MAGNIFICATION, you can't beat these as an ideal DAY or NIGHT GLASS! Large 50mm objective lenses insure maximum light transmission and a remarkable wide field of view (375 feet at 1000 yards). Instant, individual eye focusing. Size: 7"x 7½". Genuine Leather Carrying Case included. Plus Fed. Tax. 33^{95}
Leather case and straps included.

7 X 35 PRISM TYPE
The very Popular CENTER FOCUS Model with fully COATED ACHROMATIC LENSES! Combines a higher resolving power with extreme brightness & clarity. Lightweight, precision made. Ideal for all-around use DAY or NIGHT! Field of view approx., 375 ft at 1000 yards. Complete with Leather carrying case and straps. . ONLY 47^{85}
PLUS FED. TAX

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ADD 20% FED. TAX
A DeLuxe, 8 POWER BINOCULAR made of the finest materials and precision workmanship. Large Ocular lenses give high image brilliance, sharp clear definition and true color rendition. An especially fine glass for hunting with a 445 ft field of view at 1000 yards. Handy size is 4¾"x 6". Individual eye focus.
Genuine leather case & neck strap. 34^{50}

THAT SENSATIONAL G.S.A.P. 16 mm MOVIE CAMERA
That famous "gun camera" used by the Navy & USAF. Now adaptable to hand use for amateur or professional movies. Has a 1-3/8" (35mm) lens with built-in exposure guide & sun shade. Adjustable for 3 shutter speeds—16, 32 & 64 frames per second. Uses regular Eastman magazines (50 ft.). Requires no winding, no film threading. Operates on 24 volt dry cell batteries. Requires slight conversion for hand use. Free diagram furnished. (View-finder not included). 27^{95}
CONVERTED MODEL READY TO USE!
Now everyone can afford to make professional appearing 16mm Movies! This modern, precision built camera cost the Gov't approximately $235. Palleys are able to offer it to YOU complete with positive, optical view-finder, micro-switch & battery box, all attractively finished for ONLY 44^{75}

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Large 36"x 80" wool filled, pack style bag. Made for added comfort and warmth. Outer cover is rich, olive drab, water repellent and wind resistant, 10.38 Army Duck. This bag is filled with 3 pounds of 100% WOOL. Has a 100", heavy duty, rust-proof zipper on one side and across the bottom. Two, air mattress pockets. Lined with closely woven, lustre sateen. 2 zips into dbl bag. 19^{95}
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Take your HOT or COLD food wherever you go. This handy, compact, insulated, food container holds enough food for 8 people. It consists of a sturdy bakelite case containing 2 separate, 5 qt. Pyrex baking dishes with lids and 1-9 qt., plastic container for carrying ice, water, additional food, paper plates, cups, utensils, etc. A real time and money saver on all trips, picnics, parties, etc. Enjoy real home cooking wherever you go. Overall height 16" 10^{95}

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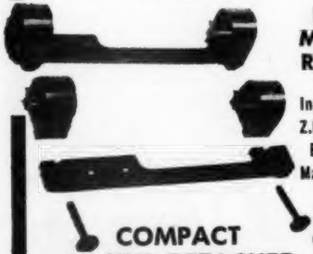

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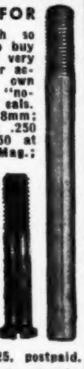

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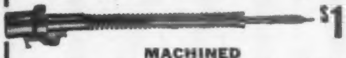

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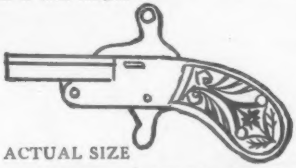

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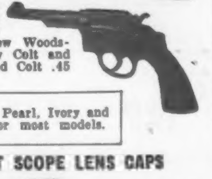

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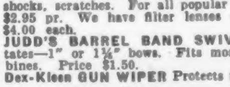

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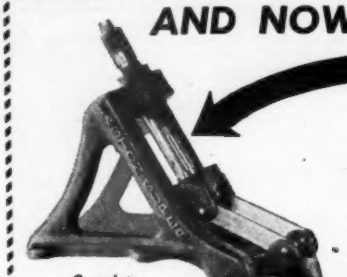

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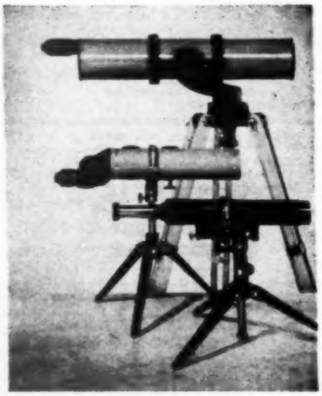

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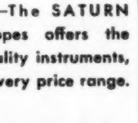

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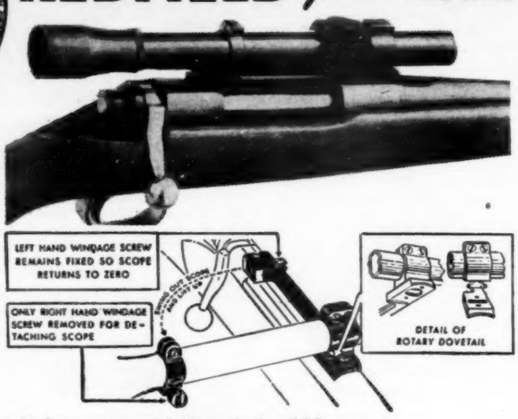
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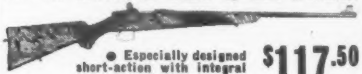

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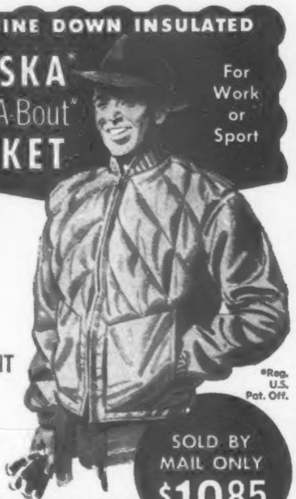
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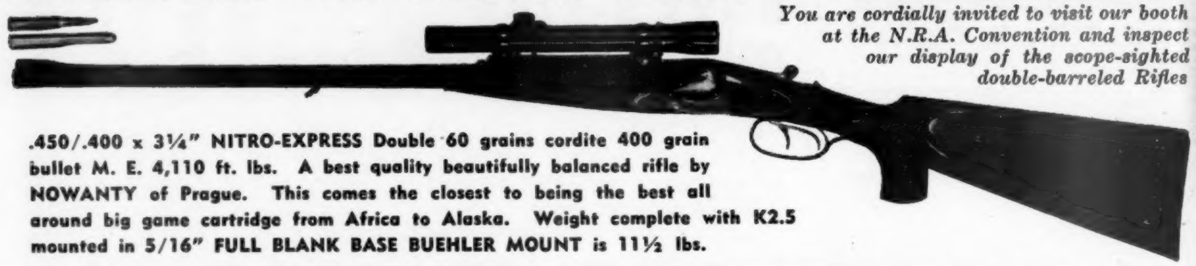

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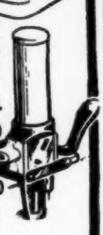

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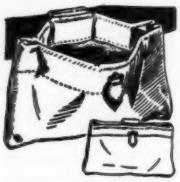

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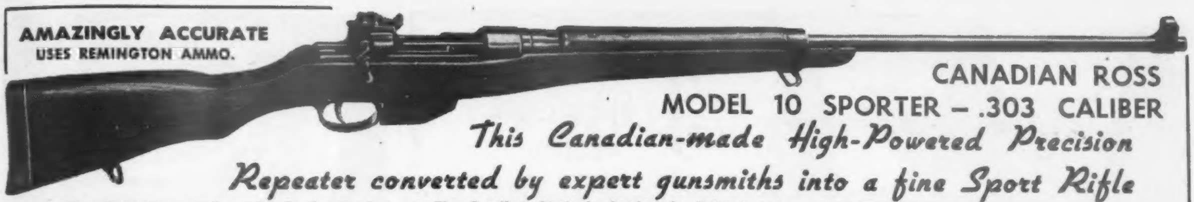

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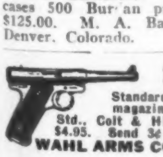

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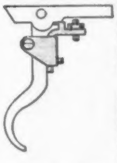

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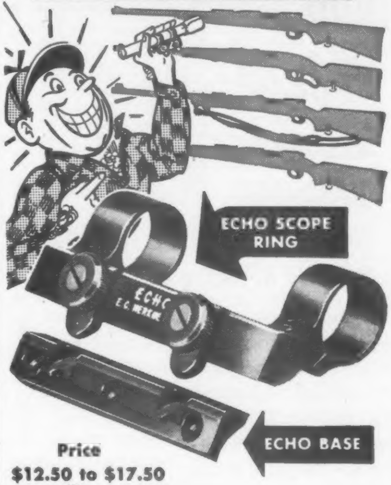

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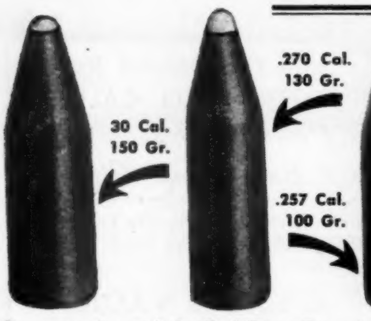

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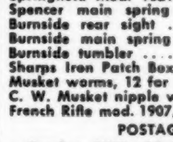

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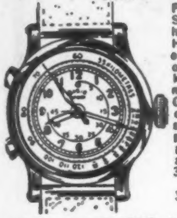

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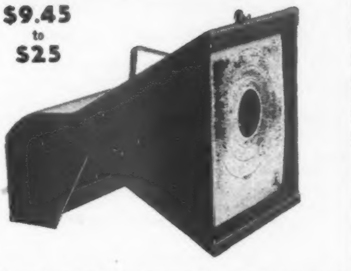

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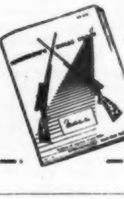

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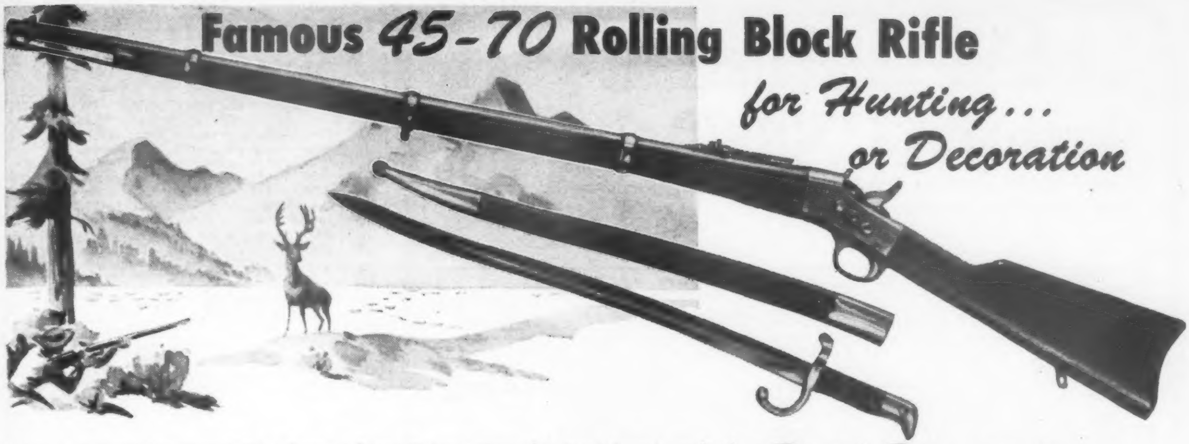

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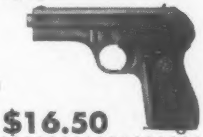

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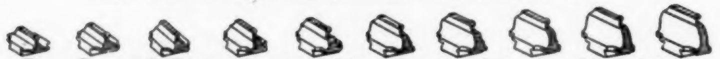

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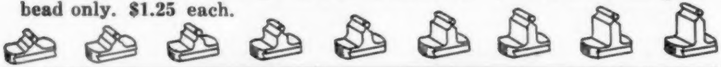

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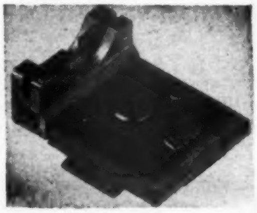

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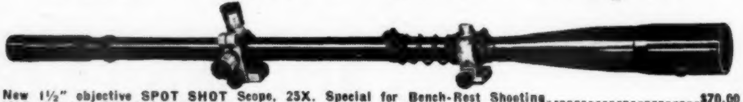

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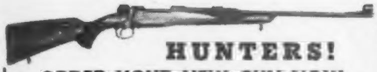

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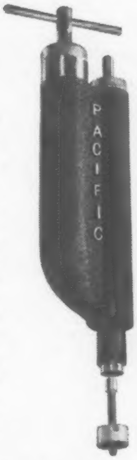

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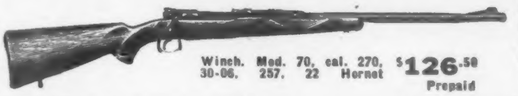

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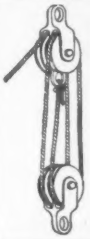

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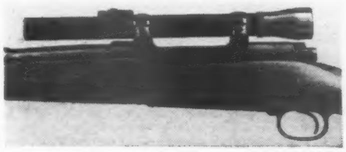

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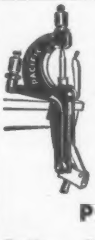

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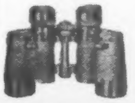

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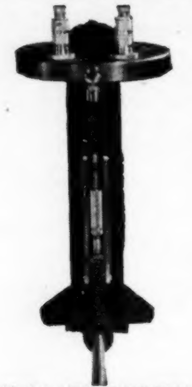

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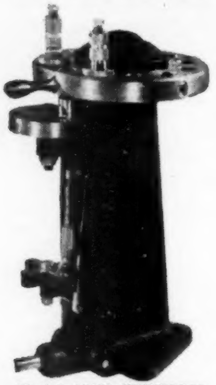

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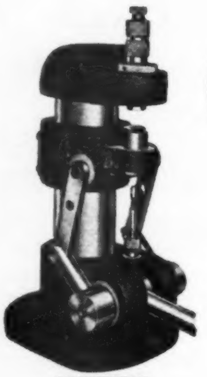

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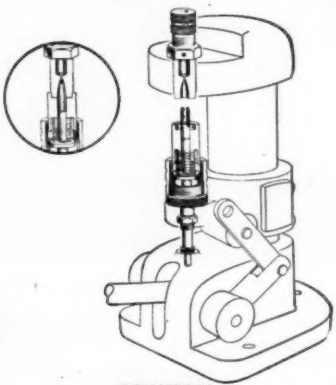

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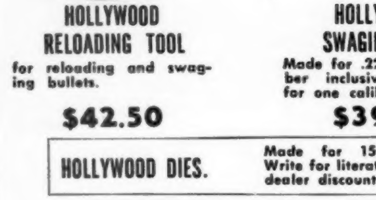

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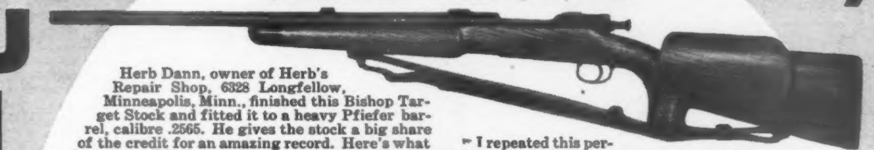

Herb Dann, owner of Herb's Repair Shop, 6328 Longfellow, Minneapolis, Minn., finished this Bishop Target Stock and fitted it to a heavy Pfiefer barrel, calibre .2565. He gives the stock a big share of the credit for an amazing record. Here's what he writes: "With hand loads, I shot 5 consecutive shots, cutting one ragged hole at 100 yards. With the same loads... *and no change in stock bedding*... I repeated this performance several times one year later. The next rifle I build... will certainly use one of your blanks, as I don't think they can be beat." To get top performance from *your* rifle ...be sure you have the stock that experts choose... BISHOP!

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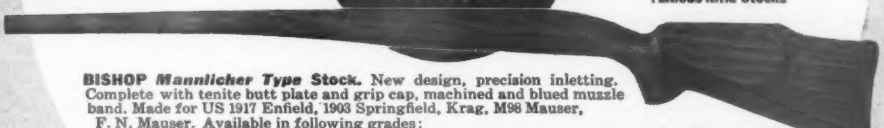

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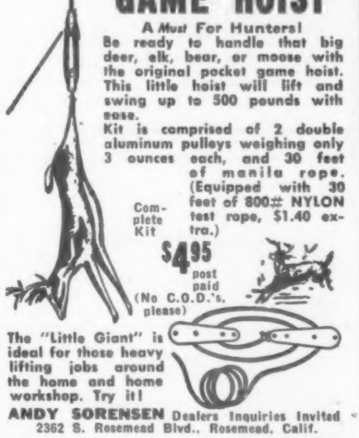

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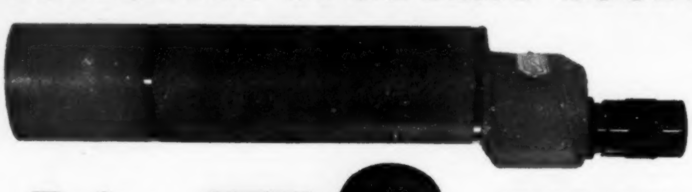

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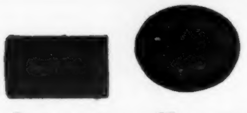

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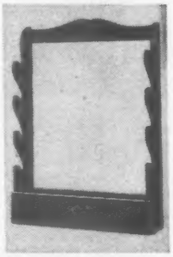

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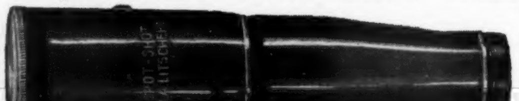

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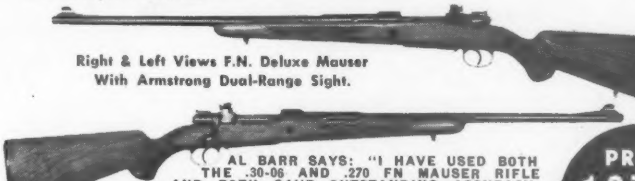

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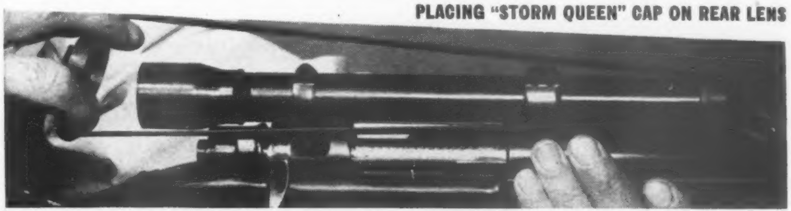

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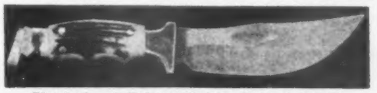

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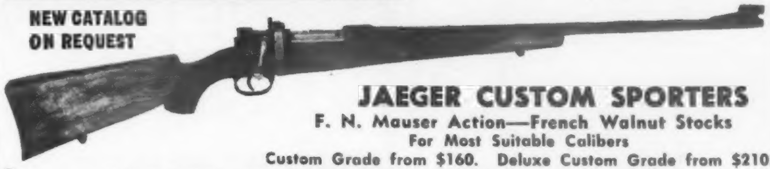

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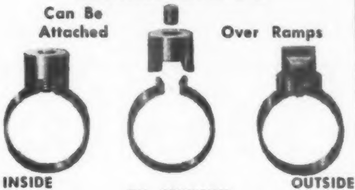

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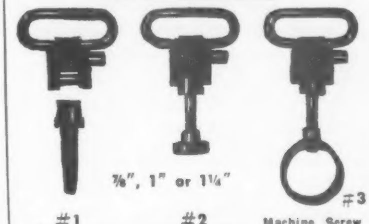

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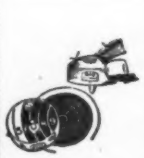

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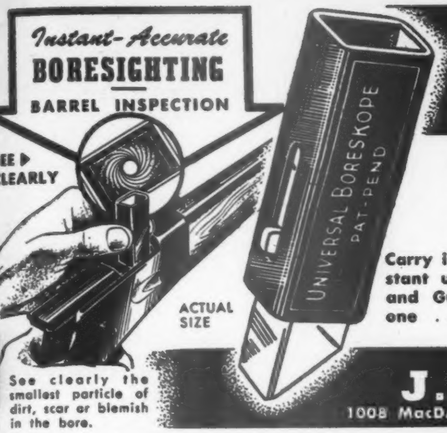

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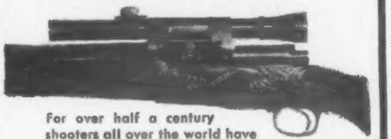

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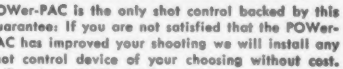

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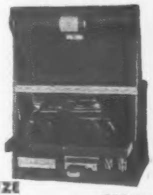

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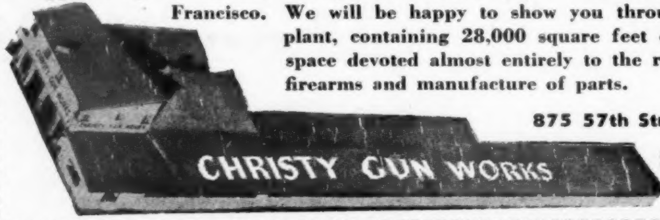

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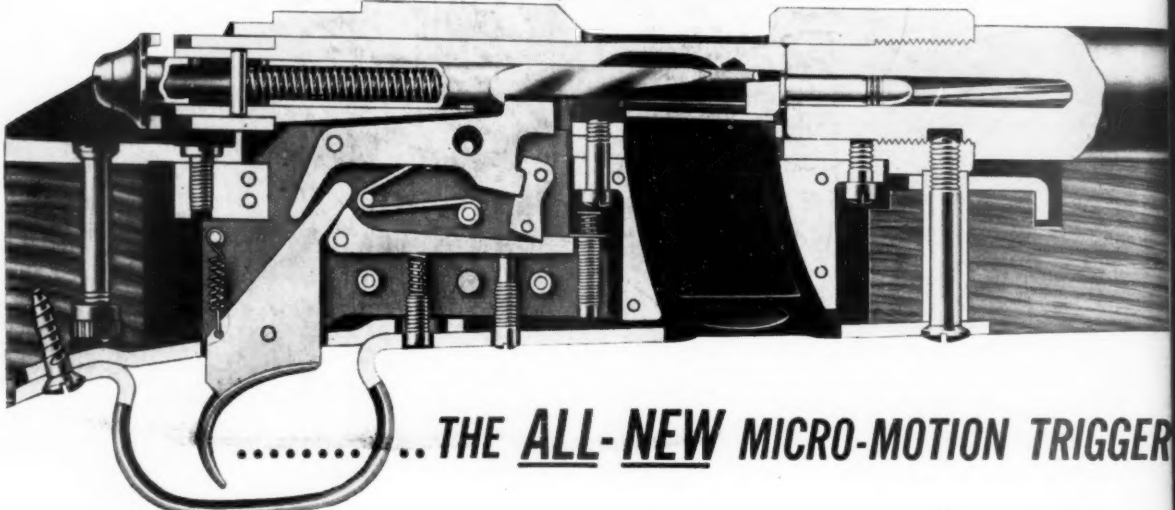

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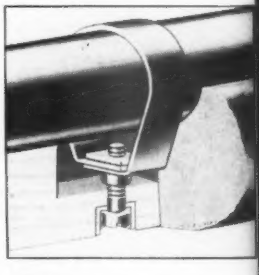

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